

19990112.qrp v01\_n334.qrl.990112

Date: Tue, 12 Jan 1999 19:05:44 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1334

### QRP-L Digest 1334

Topics covered in this issue include:

- 1) [29420] Re: I Need a UTC watch...!!  
by "Ron Smith" <resmith666@uswest.net>
- 2) [29421] Re: Just curious  
by "Kevin F. Glynn" <kfglynn@prodigy.net>
- 3) [29422] Re: NorCal 20 Boards to be ordered Monday, Jan. 11  
by Rick Sealey <rsealey@InfoAve.Net>
- 4) [29423] Re: SOLAR CONDX RECEIVER IDEA  
by Chuck Adams <adams@ticnet.com>
- 5) [29424] RE: Flip Flop  
by hamjoel@juno.com
- 6) [29425] Re: I Need a UTC watch...!!  
by "John J. McDonough" <jjmcd@tm.net>
- 7) [29426] 2nd Notice:FOX for 1/13/99  
by "W. D. (Doc) Lindsey" <70511.3041@compuserve.com>
- 8) [29427] Iambic paddle usage  
by Bruce & Susan Jenks <bnjenks@snet.net>
- 9) [29428] increasing Sierra audio  
by Scott Howell <whowell@hq.nasa.gov>
- 10) [29429] Re: I Need a UTC watch...!!  
by Peter Larsen <larsenp@cadvision.com>
- 11) [29430] Re: increasing Sierra audio  
by pmk@juno.com (Patrick M Kvitkauskas)
- 12) [29431] Re: Iambic paddle usage  
by Bob Hightower <ki7mn@extremezone.com>
- 13) [29432] Re: Flip-Flop  
by K0RWC <rwc@frii.com>
- 14) [29433] FS: Kenwood 500 Hz CW Filters  
by Vic Rosenthal <rakefet@rakefet.com>
- 15) [29434] KUDOS TO OAK HILLS RESEARCH  
by Brad Bradfield <b\_bradfield@yahoo.com>
- 16) [29435] Re: increasing Sierra audio  
by "Mitch Dickson" <mitch@volstate.net>
- 17) [29436] Re: FS: Kenwood 500 Hz CW Filters  
by jmbrown@edge.net (JERRY BROWN)
- 18) [29437] Re: Flip-Flop  
by Ron Stark <ku7y@dri.edu>
- 19) [29438] Re: Flip-Flop/Junque

- by we6w@juno.com (Ed Loranger)
- 20) [29439] Re: I Need a UTC watch...!!  
by "Marshall Emm" <mgemm@mtechnologies.com>
- 21) [29440] Manual for Kantronics Mini-Terminal  
by Chuck Adams <adams@ticnet.com>
- 22) [29441] Re: Iambic paddle usage  
by "GARY McCAUGHEY" <MAIL4GARY@worldnet.att.net>
- 23) [29442] Re: 2 MTR to 80 MTR Transverter  
by wb2vuo@juno.com (W. K. Hibbert)
- 24) [29443] anyone try the Bulldog paddle ???  
by pmk@juno.com (Patrick M Kvitkauskas)
- 25) [29444] Cat Wins Ebay Auction!  
by Chris Trask <ctrask@primenet.com>
- 26) [29445] Re: anyone try the Bulldog paddle ???  
by "Radman" <radman@best.com>
- 27) [29446] RE: Iambic paddle usage  
by "Ed Tanton" <n4xy@mindspring.com>
- 28) [29447] Kits for a newcomer  
by Jeff Johns <jeffj@scott.net>
- 29) [29448] Ten Tec  
by w2xn@juno.com (Fred J Kalt)
- 30) [29449] Re: I Need a UTC watch...!!  
by flydnq7x@primenet.com (Floyd Smithberg)
- 31) [29450] W4NVK's "SGA" (More Info)  
by David Gauding <david.gauding@bbs.galilei.com>
- 32) [29451] Meeting on 1/9  
by "Marshall Emm" <mgemm@mtechnologies.com>
- 33) [29452] Re: anyone try the Bulldog paddle ???  
by "Marshall Emm" <mgemm@mtechnologies.com>
- 34) [29453] GROUP BUY #2 IS A GO: 10K 10-Turn Potentiometers  
by "Jerry McCollom W0MC" <w0mc@hotmail.com>
- 35) [29454] TENTEC ADDRESS  
by "Todd Carpenter" <carpentt@citrine.indstate.edu>
- 36) [29455] My apologies  
by ka7you@juno.com
- 37) [29456] Re: Iambic paddle usage  
by we6w@juno.com (Ed Loranger)
- 38) [29457] RE: How did you get your design background?  
by n2tpa@juno.com (Bill B Lazure)
- 39) [29458] Norcal 20 Pictures on my WWW Site  
by David Fifield <fifield@pacbell.net>
- 40) [29459] TS-50 vs Alinco 70x  
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 41) [29460] [larc-l] DX  
by Scott Howell <showell@hq.nasa.gov>
- 42) [29461] FOX Hunt \*tonight\* :-)  
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 43) [29462] Re: Ten Tec mike wiring help

by FaithD@mail01.dnr.state.wi.us

44) [29463] Re: Flip-Flop  
by Scott Howell <whowell@hq.nasa.gov>

45) [29464] Re: Iambic Paddle Usage  
by "Joiner, Randy - LYSBB" <JoinerR@avionics2.robins.af.mil>

46) [29465] Has somebody XTAL for sale?  
by Alen Mitrovic <alenm@hermes.si>

47) [29466] Re: increasing Sierra audio  
by Scott Howell <whowell@hq.nasa.gov>

48) [29467] RE: Flip-Flop  
by "Rattray, Bruce" <Rattray@siast.sk.ca>

49) [29468] Re: Iambic paddle usage  
by Zack Lau <zlau@arrl.org>

50) [29469] Re: Has somebody XTAL for sale?  
by "Steve/n0tu" <n0tu@webaccess.net>

51) [29470] TenTec  
by w2xn@juno.com (Fred J Kalt)

52) [29471] FS: Vibroplex Champion  
by afpgreg@state.me.us (Paul V. Gregory)

53) [29472] Thanks  
by Dale and Judie <dalejudi@agate.net>

54) [29473] Re: Iambic paddle usage  
by Dick Rucker <rrucker@clark.net>

55) [29474] QRP - CW Kits  
by w2xn@juno.com (Fred J Kalt)

56) [29475] ATTENTION CQRP MEMBERS  
by SABorns@aol.com

57) [29476] Re: TS-50 vs DX-70  
by CLESKIE@um-f1.umd.umich.edu

58) [29477] Negative grid Keying Rigs with the TICK  
by Sam Billingsley <SBillingsley@usaninc.com>

59) [29478] RE: [NoGaQRP] Negative grid Keying Rigs with the TICK  
by "Ed Tanton" <n4xy@mindspring.com>

60) [29479] FS: OHR 400; OHR 100A; BRASS RACER  
by Bill Wetherill <n2wg@wilmington.net>

61) [29480] RE: What is PSK31  
by Bill Jones <kd7s@psnw.com>

62) [29481] Re: 2 MTR to 80 MTR Transverter  
by af852@rgfn.epcc.edu

63) [29482] Re: Iambic paddle usage  
by mwattcpa@earthlink.net (Marty Watt)

64) [29483] Re: Iambic paddle usage  
by John Levreault <jlevro@mediaone.net>

65) [29484] Re: What is PSK31  
by Dave Sjolín <sjolin@swbell.net>

66) [29485] Norcal 40A VFO tuning modification  
by Jim Knopf <ki7q@yahoo.com>

67) [29486] RE: NVIS Antenna impedance

by "Prof.Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>  
68) [29487] Re: What is PSK31  
by Bill Jones <kd7s@psnw.com>  
69) [29488] Surface mount Electroletics  
by alan dawkins <alk0frp@earthlink.net>  
70) [29489] Thanks!  
by Jeff Johns <jeffj@scott.net>  
71) [29490] Patcomm PC-9000 - need info  
by Jim <kj5tf@madisoncounty.net>  
72) [29491] HW-9 knob  
by SABorns@aol.com  
73) [29492] Project help  
by David J Adams <adamsclan@netgate.net>  
74) [29493] Re: Surface mount Electroletics  
by Laura Denise Halliday <lha@sdr.utias.utoronto.ca>  
75) [29494] Re: Project help  
by "Michael A. Gipe" <mgipe@reliablemeters.com>  
76) [29495] The Importance of Baluns  
by "James R. Duffey" <ji3m@maxwell.com>  
77) [29496] Kenwood Service recommendations  
by Patrick Franzis <old\_radios@yahoo.com>  
78) [29497] Re: The Importance of Baluns  
by vlantz@juno.com (Vann G Lantz)  
79) [29498] Re: TS-50 vs Alinco 70x  
by W7LS <w7ls@blarg.net>  
80) [29499] Re: Project help  
by David J Adams <adamsclan@netgate.net>  
81) [29500] Re: The Importance of Baluns  
by Niel Skousen <skousen@srv.net>  
82) [29501] Help in feeding long wire.  
by Wa2eaw@aol.com  
83) [29502] RE: The Importance of Baluns  
by Sam Billingsley <SBillingsley@usaninc.com>  
84) [29503] Re: Project help  
by "Michael A. Gipe" <mgipe@reliablemeters.com>  
85) [29504] RE: 6 Pack Plug and Play xmitter done  
by Sam Billingsley <SBillingsley@usaninc.com>  
86) [29505] Re: The Importance of Baluns; Currents in Coaxial Lines  
by "James R. Duffey" <ji3m@maxwell.com>  
87) [29506] Re: Help in feeding long wire.  
by Dave Sjolin <sjolin@swbell.net>  
88) [29507] 5 Watt amp  
by Mercxx@aol.com  
89) [29508] Re: The Importance of Baluns  
by ac5ez@webtv.net (Larry B)  
90) [29509] RE: NVIS Antenna performance  
by "Prof.Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>  
91) [29510] Baluns

by ac5ez@webtv.net (Larry B)  
92) [29511] Balun  
by ac5ez@webtv.net (Larry B)  
93) [29512] Re: 5 Watt amp  
by tf3vst@vortex.is (Villi Idunni)  
94) [29513] Re: TS-50 vs Alinco 70x  
by mwattcpa@earthlink.net (Marty Watt)  
95) [29514] First Radio Kit for Newbies, My \$.02 worth  
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)  
96) [29515] prohibited contacts?  
by Bigbob97@aol.com  
97) [29516] Re: [larc-1] DX  
by "Vincent Ferme" <vferme@sprint.ca>  
98) [29517] Re: Kits for a newcomer  
by "Mitch Dickson" <mitch@volstate.net>  
99) [29518] Re: Help in feeding long wire.  
by Bruce Muscolino <w6toy@erols.com>

-----  
Date: Mon, 11 Jan 1999 17:05:31 -0700  
From: "Ron Smith" <resmith666@uswest.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [29420] Re: I Need a UTC watch...!!  
Message-ID: <007d01be3dbf\$53ac4800\$6023e1cf@ron>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

> Has anyone found a "UTC Wrist Watch" as follows:  
> inexpensive, LCD, simultaneous dual-display (UTC & Local),  
> water proof-like, Casio, Timex, etc.... ? Cud u pass along  
> the make, model & price? I need one :-)

Mine is a Timex Atlantis 100 Duel Time Zone (not dual display) --BUT-- the second time zone CAN be set to 24 hour time! We got it on sale for about \$24.00 last year.

This is the 2nd Atlantis 100 I've had. Both have had the duel time zone - but only the newest one does 24 hour time.

72 my friend...

Ron - KD7VD

-----  
Date: Mon, 11 Jan 1999 19:06:32 -0500  
From: "Kevin F. Glynn" <kfglynn@prodigy.net>  
To: <resmith666@uswest.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [29421] Re: Just curious  
Message-ID: <199901120005.TAA173454@virtualmaster3-int.prodigy.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi Ron and gang,

I noticed a couple recently on eBay recently, check out <http://www.ebay.com>

Wasn't sure of the prices though, since my MFJ Grandmaster does double-duty, neg and pos keyed rigs not in the market for one of those.

72 Kevin N2TO  
Brooklyn, NYC  
kfglynn@prodigy.net

-----  
Date: Mon, 11 Jan 1999 19:15:11 -0500  
From: Rick Sealey <rsealey@InfoAve.Net>  
To: ki6ds@dpol.k12.ca.us  
Cc: qrp-1@lehigh.edu  
Subject: [29422] Re: NorCal 20 Boards to be ordered Monday, Jan. 11  
Message-ID: <1.5.4.32.19990112001511.00fae1c8@mail.infoave.net>  
MIME-version: 1.0  
Content-type: text/plain; charset="us-ascii"

At 11:24 PM 1/10/99 -0800, you wrote:

>Good news. The fifth generation NorCal 20 boards came back from the prototype house last Thursday. Dave Fifield built the board with a set of parts that I kitted, and everything is perfect. ...

----- SNIP -----

Thank you, Doug, Dave, Mike, Dave, Gary, Jim, Richard, et al, for the effort by all of you. We're really looking forward to this one!

Rick - W4SEA

-----  
Date: Mon, 11 Jan 99 18:23:26 -0500  
From: Chuck Adams <adams@ticnet.com>  
To: "mjfitz@uswest.net" <mjfitz@uswest.net>  
Cc: qrp <qrp-1@lehigh.edu>  
Subject: [29423] Re: SOLAR CONDX RECEIVER IDEA  
Message-ID: <199901120025.TAA44612@nss4.cc.Lehigh.EDU>

Mike et.al.,

Don't know how many have a FRY's near them but  
the Oregon Scientific WWVH synced clock is going  
for \$29.95 a much better deal IMHO if you are trying  
to save a buck for the next rig. :-)

We need a write-in effort to both companies to get  
them to come out with a UTC model. At the present  
time they all have the US timezones as the only  
option.....

FYI

OH, none have an interface for external controls or  
computer exchange as in the more expensive  
Heathkit GC-1000.

--

Chuck Adams K5FO adams@ticnet.com CP-60  
<http://www.ticnet.com/k5fo>

-----  
Date: Mon, 11 Jan 1999 19:29:53 -0500  
From: hamjoel@juno.com  
To: qrp-1@lehigh.edu  
Subject: [29424] RE: Flip Flop  
Message-ID: <19990111.192954.-206079.1.hamjoel@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Dearest Ed

You will be called as a witness at my divorce hearings!!!!

I took ur advice and suggested to the wife that I should have a qro rig so I could flip flop every now and then and thereby learn to appreciate qrp even more..... I also suggested that I get some commercial antennas just to see if they worked as good as the wire antennas... flip flopping again...

My wife suggested that I find a new living address and a few other suggestions that I can't mention on the list.... :-)

I explained all this to my cajun mama and she is still laughing..... :-)  
I don't understand all the fuss as I've been doing most of what u suggested for many years and it does put a bit of excitement into the experience.... (another color of the ham radio rainbow)

OH< signals started coming in on twenty and forty meters the other day.... so I suspect, as someone on the list suggested, I may want to put up a few different types of antennas for each band... as this one won't do it during the winter time....

we also have some degrees F up heah now... almost twenty five of em today... My cajun mama sent me some pictures of their thermometer indicating 80 and 90\* F...

made me feel good...

joel wa5cvm, in maine, suffering by degree and the lack of degrees... :-)

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You don't need to buy Internet access to use free Internet e-mail.  
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>  
or call Juno at (800) 654-JUNO [654-5866]

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Date: Mon, 11 Jan 1999 19:42:50 -0500  
From: "John J. McDonough" <jjmcd@tm.net>  
To: <radman@best.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [29425] Re: I Need a UTC watch...!!  
Message-ID: <004b01be3dc4\$801b26e0\$010044c0@mdp23b>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

From: Radman <radman@best.com>

>

>Has anyone found a "UTC Wrist Watch" as follows:



I have the Timex/Microsoft Datalink, which like the Atlantis another poster mentioned, also has 2 time zones, independently setttable to 24 hour. The neat thing about the Datalink is it also holds appointments and phone numbers.

I used to have a Seiko RC1000, which had a little more flexible setup on the memories (it could store more or less random data - good for reference) but it needed to be attached to a serial port for downloading. When it died, I couldn't find a replacement. The Datalink LOOKS AT THE SCREEN! Well, it's not quite so bad, when you tell the software to download the watch, the screen goes black except for some lines. You hold the watch up where it can see the screen, and it beeps as the lines flash. After a while the data is in the watch! Tho weird, this lash up really is a lot more convenient than the little cables and such. And Microsoft Schedule+ also understands it.

I've had this thing for 4 or 5 years now, and no complaints. I still see them where Timexes are sold - I think they are now around \$40-50 or so. I keep the normal display on Eastern time, and the secondary display on "Fox" time. You can briefly look at fox time, or switch it so that fox time is the default, and real life time is secondary. It's easier than most watches to line up the seconds with WWV!

It's also one of the few watches I've had with a backlight bright enough to read the time.

72/73 de WB8RCR <http://users.tm.net/jjmcd/>  
didileydadidah QRP-L #1446 Code Warriors #35

-----  
Date: Mon, 11 Jan 1999 19:43:49 -0500  
From: "W. D. (Doc) Lindsey" <70511.3041@compuserve.com>  
To: QRP-L Discussion Group <QRP-L@LEHIGH.EDU>, "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@compuserve.com>  
Subject: [29426] 2nd Notice:FOX for 1/13/99  
Message-ID: <199901111946\_MC2-6638-D0BE@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: 7bit  
Content-Type: text/plain; charset=us-ascii  
Content-Disposition: inline  
Content-Transfer-Encoding: 7bit

Gang:

This is my \*second notice\* re tomorrow evening's FOX.

There will be a substitute--K0EVZ will be the FOX tomorrow evening (actually 1/13/99, UTC-wise). Brian KB9BVN is starting treatments for diabetes so I will be subbing for him. We fully expect he will be able to fill my previous-scheduled slot on 2/17/99.

Here are the details:

2000-2200CST Tuesday 1/12/99 (this is 0200-0400Z, 1/13/99). I expect to start out about 7.044-7.045 +/- QRM.

Setup will be an OHR500 at 5 watts to the window at 33'. I may be able to install a double bazooka at 38' as an additional antenna. But the window served us well last time, so we are all set.

So come one, come all. Let's have a great evening. Fingers crossed here for good propagation for everyone :-).

72/73,

--Doc Lindsey/K0EVZ

DSBF

P.O. Box 7187

Bismarck, ND 58507

E-Mail 70511.3041@compuserve.com

-----  
Date: Mon, 11 Jan 1999 20:12:45 -0500  
From: Bruce & Susan Jenks <bnjenks@snet.net>  
To: qrp-l@lehigh.EDU  
Subject: [29427] Iambic paddle usage  
Message-ID: <369AA18C.79BF7DD3@snet.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

I am just getting back into CW and have bought an iambic keyer, but wonder which side is best for the dots and dashes? I suspect that it is up to the user, but wonder if there is any "preferred" way.

Bruce Jenks, N0EWZ/1  
bnjenks@snet.net

-----

Date: Sat, 09 Jan 1999 15:26:34 -0500  
From: Scott Howell <whowell@hq.nasa.gov>  
To: qrp-1@lehigh.edu  
Subject: [29428] increasing Sierra audio  
Message-ID: <3.0.5.32.19990109152634.007db100@mail.hq.nasa.gov>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

ok folks I think I'm not loosing my hearing, but feel like a little more audio would be nice. So, I have to turn the af gain about half way or so before I feel like I got the level I need especially when looking for stations in the mud.

I tried several headphones with little luck in the way of increasing audio. So, can anyone suggest what would be best done here that would not change the rigs pwr requirements etc.?

just a little more not much dont' need a surround sound system, but hmmm now I think of it, that might be intresting.

Cw surround sound.hi hi

tnx es 72/73 de Scott/n3byy

-----  
Date: Tue, 12 Jan 1999 01:32:46 +0000  
From: Peter Larsen <larsenp@cadvision.com>  
To: radman@best.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [29429] Re: I Need a UTC watch....!!  
Message-ID: <369AA63E.CF4A64E8@cadvision.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi Conrad et al:

I have a Casio quartz watch. On the back it says:

306 (in a box) and AW-30

Not sure which is the model number. It has analog Hands for local time and a digital window that has your choice of day/date, local time or a second time. The second time can be set to a 24 hour clock.

On the face it has "Water sports" and also water resistant to 50 meters. Just for those days you want to QRP/sea kayak so you can keep up those logs :o)

I have no financial interest in Casio, quartz, water sports,

or any thing else above mentioned.

--

73 es have fun  
Peter  
VE6YC D021wc

-----  
Drinking and calculus don't mix. Never drink and derive!!  
-----  
  
-----

Date: Tue, 12 Jan 1999 01:44:09 +0000  
From: pmk@juno.com (Patrick M Kvitkauskas)  
To: whowell@hq.nasa.gov, qrp-1@lehigh.edu  
Subject: [29430] Re: increasing Sierra audio  
Message-ID: <19990112.014410.8406.1.pmk@juno.com>

After reading about the super duper speaker stuff I had to give it a try. I am not a mathematic geniuses so I got a 2 inch speaker and a piece of PVC pipe and made a piston to go inside the pipe (1/2 " wood) with a dowel glued to the center. After finding the resonate frequency for my liking (500hz) I glued in the wood piston with cyanoacrylate and snapped off the dowel. Cut the pipe flush with the wood piston then used a coupler on the speaker end as a chamber with a 1" X 3/4" hole and that really boosted the 500hz. I now run the Sierra at 9 to 10 o clock on the AF gain. I missed out on the speaker design thread but have had good success with mine.

On Sat, 09 Jan 1999 15:26:34 -0500 Scott Howell <whowell@hq.nasa.gov> writes:

> ok folks I think I'm not loosing my hearing, but feel like a  
>little more  
>audio would be nice. So, I have to turn the af gain about half way or  
>so  
>before I feel like I got the level I need especially when looking for  
>stations in the mud.  
>I tried several headphones with little luck in the way of increasing  
>audio.  
>So, can anyone suggest what would be best done here that would not  
>change  
>the rigs pwr requirements etc.?  
>  
>just a little more not much dont' need a surround sound system, but  
>hmmmm  
>now I think of it, that might be intresting.

>  
>Cw surround sound.hi hi  
>  
>tnx es 72/73 de Scott/n3byy  
>

-----  
Date: Mon, 11 Jan 1999 19:11:26 +0000  
From: Bob Hightower <ki7mn@extremezone.com>  
To: bnjenks@snet.net  
Cc: qrp-1@lehigh.edu  
Subject: [29431] Re: Iambic paddle usage  
Message-ID: <199901120157.SAA16782@enterprise.extremezone.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 08:12 PM 1/11/99 -0500, you wrote:

>I am just getting back into CW and have bought an iambic keyer, but  
>wonder which side is best for the dots and dashes? I suspect that it is  
>up to the user, but wonder if there is any "preferred" way.  
>

Set it up whichever way is most comfortable.....you'll here pros and cons  
from both sides, but no one can tell the difference unless you tell which  
is which :^). Until, that is, you start sending gibberish by forgetting  
which is which.

72,73

Bob Hightower KI7MN

<http://www.extremezone.com/~ki7mn>

-----  
Date: Mon, 11 Jan 1999 19:05:07 -0700  
From: K0RWC <rwc@frii.com>  
To: we6w@qsl.net, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [29432] Re: Flip-Flop  
Message-ID: <3.0.5.32.19990111190507.00835750@mail.frii.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 06:59 PM 1/11/99 +0000, you wrote:

>No, it isn't a digital circuit I'm talking about.  
>  
>I bring forth the notion that change is enlightening.  
>  
>Asking oneself is the grass is greener on the other side

>of the fence. Perhaps it is only different.  
>

---8<---SNIP---

Funny you should post this. I did just what you suggest, before you suggested it, so of course you own me royalties. ;-) A cup of coffee sometime when we eyeball. Anyway, after the upgrade QSO party went bust, I went down to the low end of 40 with the Icom746 cranked up to about 50W. Heard Charles, K5BNZ, Las Cruces, NM, calling CQ. Called him back & we had a mighty fine chat. Boy GUD CW CPY IS EASY AT QRO LEVELS. :-) :-)

---

72/3 K0RWC  
Rod Cercone, QRP-L #1764.  
Fort Collins, CO  
da di dah

-----  
Date: Mon, 11 Jan 1999 18:07:13 -0800  
From: Vic Rosenthal <rakefet@rakefet.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [29433] FS: Kenwood 500 Hz CW Filters  
Message-ID: <369AAE51.69A29C6A@rakefet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

I have a pair of 500 Hz CW filters, Kenwood models YK88C-1 and YG455C-1. They fit the TS450/850/930/940/950. They are NOT appropriate for the TS830s.

If you bought them new from AES, the pair would cost \$289.90! I am offering the pair for \$175 shipped (CONUS).

They are guaranteed to be in working condition (I removed them from my 850 to install Inrad filters).

If they don't go in a few days, I'll post this elsewhere. Right now, it's a QRPL special!

73,  
Vic, K2VCO  
Fresno CA

-----

Date: Mon, 11 Jan 1999 18:27:22 -0800 (PST)  
From: Brad Bradfield <b\_bradfield@yahoo.com>  
To: qrp-1@lehigh.edu  
Subject: [29434] KUDOS TO OAK HILLS RESEARCH  
Message-ID: <19990112022722.20706.rocketmail@send204.yahoomail.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

As fast as life travels these days, I know I don't always take time to compliment people for a job well done.

Several months back I purchased a WM-2 wattmeter from Oak Hills Research. For one reason or another, I have not gotten it built, and now I've misplaced the manual. This morning I sent e-mail to OHR asking for another manual, expecting to pay the going price for it. In short order I received a nice reply e-mail from Dick at OHR saying that a replacement manual was in the mail at no charge.

Thanks for the quick service, Dick.

Ain't our QRP suppliers great!!??

72's es 73's,

Brad, W5CGH

==

Brad Bradfield, PE	W5CGH	Systems Engineer
(ex WB0CGH)		Raytheon Systems Company

Real men talk with their fingers!!

QRP-L #377	SMIRK #4906
ARS #72	Austin QRP Club #e

-----  
DO YOU YAHOO!?

Get your free @yahoo.com address at <http://mail.yahoo.com>

-----  
Date: Mon, 11 Jan 1999 21:26:26 -0500  
From: "Mitch Dickson" <mitch@volstate.net>  
To: <whowell@hq.nasa.gov>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [29435] Re: increasing Sierra audio  
Message-ID: <000b01be3dd2\$f5588c00\$3b338cd1@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

My My My Scott. Go down to your local puter store and pick you up a set of mini-powered stereo speakers for around \$10. They already got a 1/8 inch phone jack on them! Plug them in and plug the wall-wart into the wall and turn the volumn up to taste. I gave \$11 for an extra delux set the other day :) You can't buy a board, enclosure, speaker, lm358 and the caps and resistors for \$10! (whereever you go, there you are) CU Mitch  
>

-----  
Date: Mon, 11 Jan 1999 20:29:22 -0600  
From: jmbrown@edge.net (JERRY BROWN)  
To: rakefet@rakefet.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [29436] Re: FS: Kenwood 500 Hz CW Filters  
Message-ID: <369AB382.6835@edge.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Vic,

What are  
Inrad filters?

I don't have any Kenwood gear.

73,

Jerry N4EO

-----  
Date: Mon, 11 Jan 1999 18:43:52 -0800 (PST)  
From: Ron Stark <ku7y@dri.edu>  
To: Ed Loranger <we6w@qsl.net>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>



Subject: [29437] Re: Flip-Flop  
Message-ID: <Pine.SOL.3.96.990111145746.11051A-1000000@vortex.dri.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 11 Jan 1999, Ed Loranger wrote:

> Do a "flip-flop" and experience radio from the other side of  
> the fence.

Hi Ed,

Great idea! And I was ahead of you....

I did the NAQP last Saturday with a full 100 watts! :-)

Here is my breakdown:

BAND	Raw QSOs	Valid QSOs	Points	Mults
160CW	16	16	16	9
80CW	2	2	2	2
40CW	264	261	261	48
20CW	150	149	149	43
15CW	155	153	153	43
10CW	119	118	118	32
-----				
Totals	706	699	699	177

Final Score = 123723 points.

No antenna for 80m and the 160m broke in the wind early on!

And while 700 QSOs in 10 hours seems like a lot, this really isn't a very big score! But just wait until next year....

(This is my best ever number of QSOs in a single contest!)

And what better way to end the contest than with a QSO with fellow QRPer KA5ZZN/QRP, Bruce in OK!

Here is something else I gave some thought to:

How many contacts can you do at different CW speeds?

In the NAQP I came up with these numbers....

The maximum number of QSO per hour relates to the speed you send/receive. For the NAQP it's about:

40 wpm = 300 QSOs/Hr.

30 wpm = 225 QSOs/Hr.

25 wpm = 188 QSOs/Hr.

20 wpm = 150 QSOs/Hr.

15 wpm = 113 QSOs/Hr.

These numbers came from using an "average" call and exchange. Some are longer and others are shorter so the numbers will vary a bit.

But what this does is point to the relationship between CW speed and QSOs in a contest.

Those numbers also don't reflect any CQing or S&P time. They are a MAX based on just sending the exchanges and no repeats.

The point of this is that if you want to get more QSOs in a contest, make each one in less time! :-)

The question of multipliers and how to plan for and get a big score are lessons I'm still taking! :-)

And now I can blame Ed for my slip to high power! There for a while I thought I was just going to have to blame myself!

73, Ron,        SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

-----

Date: Mon, 11 Jan 1999 21:52:03 EST  
From: we6w@juno.com (Ed Loranger)

To: qrp-1@Lehigh.EDU  
Subject: [29438] Re: Flip-Flop/Junque  
Message-ID: <19990111.184848.4775.3.we6w@juno.com>

Wow, really nice responses. Gotta stop laughing before  
I fire up the rig tonight. Talk abt. ur bug ch-ch-chatter.

By the way, the flip-flop is also in the FB 40 :)

Thanks all for the great responses. Now where's  
that microphone.....  
72, Ed WE6W QRP-Z#106 -L#1068, AR Millennium QSO's=105/2000  
<http://www.qsl.net/we6w> Radio, everyday in Santa Rosa, CA  
QRP-L#1068 AR#112 QRP-Z#106 ARCI:9397 Norcal#2227 QAA#006

-----  
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or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Mon, 11 Jan 1999 19:58:50 -0600  
From: "Marshall Emm" <mgemm@mtechnologies.com>  
To: radman@best.com, qrp-1@lehigh.edu  
Subject: [29439] Re: I Need a UTC watch....!!  
Message-ID: <199901120257.TAA25049@edison.chisp.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-Transfer-Encoding: 7BIT

Hi, conrad--

I have one (a Casio) that I got at Radio Shack for around \$20.

73  
Marshall Emm  
N1FN/VK5FN  
n1fn@MorseX.com  
Morse Express  
"Everything for the Morse Enthusiast"  
<http://www.MorseX.com>  
(303)752-3382  
--

-----

Date: Mon, 11 Jan 99 21:15:37 -0500  
From: Chuck Adams <adams@ticnet.com>  
To: qrp <qrp-l@lehigh.edu>  
Subject: [29440] Manual for Kantronics Mini-Terminal  
Message-ID: <199901120310.WAA46650@nss4.cc.Lehigh.EDU>

Gang,

I just received from a local the above mentioned object. It is not working and we don't have a manual. Anyone have one of these critters. If I can get it working then I get to listen to RTTY on 7.040..... and 14.060 .... and .....

Let me know. All I need is a schematic. This puppy is DOA. If I can get it fixed, he pays for the parts and I get to use it for a week.

TNX

--  
Chuck Adams K5FO adams@ticnet.com CP-60  
<http://www.ticnet.com/k5fo>

-----  
Date: Mon, 11 Jan 1999 22:09:43 -0800  
From: "GARY McCAUGHEY" <MAIL4GARY@worldnet.att.net>  
To: <bnjenks@snet.net>  
Cc: <qrp-l@lehigh.edu>  
Subject: [29441] Re: Iambic paddle usage  
Message-ID: <007c01be3df3\$40c74120\$a6864e0c@garymcca>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Bruce and any other interested list reader,

I went from a straight key to a bug. Using a bug....you use the thumb for dits.....soooo, it just seems correct to use the thumb dits even with a paddle (iambic or single). I think that is the normal (if there is such a thing) convention. Also, that way if you want to try out a bug some time

you won't have to totally relearn how to send.

My two cents.

Gary

W2UX

=====

>I am just getting back into CW and have bought an iambic keyer, but  
>wonder which side is best for the dots and dashes? I suspect that it is  
>up to the user, but wonder if there is any "preferred" way.

>

>Bruce Jenks, N0EWZ/1

>bnjenks@snet.net

>

>

>

-----

Date: Mon, 11 Jan 1999 19:57:19 -0500

From: wb2vuo@juno.com (W. K. Hibbert)

To: ve6bpr@cnnnet.com, qrp-l@lehigh.edu

Subject: [29442] Re: 2 MTR to 80 MTR Transverter

Message-ID: <19990111.222337.-89843.0.wb2vuo@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Hi Al. Keith here in the Depths of the Great Bergen Swamp in (snowy) WNY

73 Magazine had a 160 - 10 Meter transverter designed to be used with a 2 Meter multi-mode in the early 80's, but I gave all of those magazines away. The author used a Kenwood TR-9000 for the IF, and a phase-locked oscillator for the LO. The LO was stepped in 4 MHz steps and covered the whole HF range this way. It was even QRP, with a 10 Watt PEP rating...

The basic circuit was the same as an HF-VHF transverter, with the mixer and LO the same, but the IF is 2 Meters and the output is HF.

Because of the high IF (144-148 MHz) the image frequency falls in the 258 - 287 MHz range, easily filtered out. With present-day tech, the transverter could be built even easier than the 80's version. A MiniCircuits TUF-1 would handle the mixer duty, the LO could be rockbound for the band(s) of choice, and the HF amplifier chain could be a broadband design with 5- or 7-pole LP filters for each range covered.

A suggested scheme would go something like this:

160/80M : LO=143 MHz; HF out=1-5 MHz  
40/30M : LO=137 MHz; HF out=7-11 MHz  
20M : LO=130 MHz; HF out=14-18 MHz  
17/15M : LO=126 MHz; HF out=18-22 MHz  
12M : LO=120 MHz; HF out=24-28 MHz  
10M : LO=116 MHz; HF out=28-32 MHz

If your 2 Meter rig had some overlap, you could cover 17 Meters along with 20 Meters, 15 & 12 Meters together and so on...

I had thoughts of just such a scheme a couple of years ago and even started gathering the parts for it, but sold the 2 Meter gear before I started on the design (other than on paper)

I am sure someone on the List has that 73 magazine in their personal archives. Go for it, it's a worthwhile project.

72/73, Keith, WB2VUO, 100% QRP from the Great Bergen Swamp of WNY  
My night light runs more power than my Rig!!!

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or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Tue, 12 Jan 1999 03:31:22 +0000  
From: pmk@juno.com (Patrick M Kvitkauskas)  
To: qrp-l@lehigh.edu  
Subject: [29443] anyone try the Bulldog paddle ???  
Message-ID: <19990112.033123.3334.0.pmk@juno.com>

just seen it in the Nuts and Voltz rag. Looks interesting.

72  
Patrick KD4OBQ

AR

-----  
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or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Mon, 11 Jan 1999 21:11:16 -0700 (MST)  
From: Chris Trask <ctrask@primenet.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [29444] Cat Wins Ebay Auction!  
Message-ID: <Pine.BSI.3.96.990111210020.8601B-1000000@usr02.primenet.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Okay, I know that this is a bit off-topic, but it's so funny that I just had to share it with somebody.

The other day somebody on the list mentioned that there was some Heathkit gear up for auction on Ebay. Since I'm always looking for books to add to my technical library here, I thought it would be worth my while to do a keyword search there and see what I could come up with. I didn't expect anything at all, but found a listing for a copy of "Handbook of Filter Synthesis" by Anton Zverev. Anybody who is serious about filters will tell you right away that this is a very worthwhile, and expensive (\$200.00) book.

I set up my maximum bid for \$25, and let it ride, figuring that I would check it just before the close of bidding at 6:33 Sunday evening. That afternoon, I set my kitchen timer to remind me at 6:25 to check the email for outbidding.

Around 6:00, I went into the room where I have my test equipment, and started testing a circuit that I'm in the process of patenting. With the network analyzer and synthesizer cooling fans running, I did not hear the timer go off. I know, I should have taken the timer with me. Next time, for certain.

Anyway, after a while my cat comes in and wants to be scratched. Just as I reached down, I noticed my watch and it said 6:30, just 3 minutes before the bidding closed! I ran to the computer, logged into my ISP, and there in my email was a notice that I had been outbid! Just as fast, I got into Ebay, and on my second try I outbid my competition by \$2.00. When I got the confirmation, it showed that I had beat the deadline by just 15 seconds! I got the book for \$35 with shipping.

The cat gets tuna and milk for supper all week long.

,-----.  
/ What's all this \

Circuit Design for the  
RF Impaired

Chris Trask / N7ZWY  
Principal Engineer  
ATG Design Services  
P.O. Box 25240  
Tempe, Arizona 85285-5240

Technical Editor,  
QRP Quarterly  
QRP ARCI 9464

Email: [ctrask@primenet.com](mailto:ctrask@primenet.com)  
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Mon, 11 Jan 1999 20:32:15 -0800  
From: "Radman" <radman@best.com>  
To: <pmk@juno.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [29445] Re: anyone try the Bulldog paddle ???  
Message-ID: <199901120428.UAA07456@proxy4.ba.best.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi Pat et al,

Surf over to: <http://www.qth.com/k9lu/> and you can check out this little puppy out for yourself. Two brass buttons fastened to an "office supply clip" make up the mechanical guts. It's mounted to a triangular oak base with suction cups to keep it from skidding about. Comes with a 30" cable with a Sony-type plug (3.5mm). The complete paddle is \$20 and the "paddle head only" is \$10 -- you supply the base and cable. Very small and looks nifty.... don't know how it feels. Think I'll order a "paddle head" and try it.

If you don't have Internet access contact: Louis Petkus - W9XT at 630-443-8822

Standard disclaimer :-)



72 - Conrad Weiss - NN6CW

\*\*\*\*\*

just seen it in the Nuts and Voltz rag. Looks interesting.

72

Patrick KD4OBQ

AR

-----

Date: Mon, 11 Jan 1999 23:32:31 -0500  
From: "Ed Tanton" <n4xy@mindspring.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Cc: <bnjenks@snet.net>  
Subject: [29446] RE: Iambic paddle usage  
Message-ID: <000e01be3de4\$9186c900\$01010101@n4xy>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="Windows-1252"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Personally I prefer the same convention that evolved from bugs... that is:  
dits on the left, dashes on the right.

72 / 73 Ed N4XY email: <n4xy@mindspring.com>

-----

Date: Mon, 11 Jan 1999 22:50:53 -0600  
From: Jeff Johns <jeffj@scott.net>  
To: qrp-1@Lehigh.EDU  
Subject: [29447] Kits for a newcomer  
Message-ID: <199901120450.WAA19126x@scott.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 8bit  
Content-Transfer-Encoding: 8bit

Hello all! I have been lurking for a few days and finally decided to ask my  
newcomer question, in hopes that someone can point me in the right

direction. I have recently upgraded from a no-code license to a Tech Plus license and realizing how easy it was <grin> plan on going ahead and getting my General here in the next few months.

Even with my no-code license I was a fan of 'less is more' and have enjoyed doing some very unique things, including work the Mir space station while mobile from a police car with a 5 watt HT.

Now that I have some HF priveleges, I want to continue my quest of low power amateur radio and in the process sharpen my CW skills. I am an avid builder/experimenter and am not afraid of a soldering iron. I'm hoping that someone can point me in the right direction of finding some info on homebrew QRP projects. I remember seeing an article in QST where a transmitter was built in an Altoids tin, that just absolutely amazes and thrills me. I would love to find some type of plans for a small QRP transceiver that I could build at home and be able to work in the Novice CW bands (at least until I get my General). I have this grand vision of working a small QRP station possibly powered by a small gel-cell or even small battery.

I'm open to any and all suggestions which you seasoned veterans may have for me and I thank you for allowing me onto your forum.

73 Jeff W4JEF

```
*----- Jeff Johns W4JEF - AMSAT# 32615 -----*
|jeffj@scott.net w4jef@amsat.org | Reserve Patrol Captain |
| Satellite: Mir R0MIR-1, A0-27 | Jefferson County Sheriff's Dept|
|200LX+BayPac+FT50=Portable Packet| QTH Birmingham, AL USA |
*-----*
```

-----

Date: Tue, 12 Jan 1999 00:00:01 -0500  
From: w2xn@juno.com (Fred J Kalt)  
To: qrp-1@lehigh.edu  
Subject: [29448] Ten Tec  
Message-ID: <19990112.000002.-942491.4.w2xn@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Hi gang,

I know that someone out there is a wizard of all, and can give me the web page address for Ten Tec

tnx

Fred W2XN

Lakeland, FL

W5YI-VE Skywarn #POL-007 Polk County ARES Net Manager AR QRP

#233 QRP-L #1728

My Web Page:

<http://www.geocities.com/ResearchTriangle/Thinktank/5344/>

-----  
Date: Mon, 11 Jan 1999 22:02:50 -0700 (MST)  
From: flydnq7x@primenet.com (Floyd Smithberg)  
To: radman@best.com, qrp-l@Lehigh.edu  
Subject: [29449] Re: I Need a UTC watch...!!  
Message-ID: <199901120502.WAA15677@smtp01.primenet.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>Has anyone found a "UTC Wrist Watch" as follows:  
>inexpensive, LCD, simultaneous dual-display (UTC & Local),  
>water proof-like, Casio, Timex, etc.... ? Cud u pass along  
>the make, model & price? I need one :-)  
>72 - Conrad - NN6CW

I have a Timex Atlantis 100...has dual time(local and 2nd time zone<UTC>)can be used in 12 or 24 hr mode and you can peek at the UTC time AND date by temp pressing start/split button. Very handy for UTC impaired 8-) Cost \$26.56 at Target Also has alarm,chrono, timer, Indiglo...nice for night field work, water resistant to 100M, etc.  
73 Floyd NQ7X Phoenix ScQRPion

-----  
Date: Mon, 11 Jan 1999 23:21:50 -0600  
From: David Gauding <david.gauding@bbs.galilei.com>  
To: qrp-l@lehigh.edu  
Subject: [29450] W4NVK's "SGA" (More Info)  
Message-ID: <1.5.4.32.19990112052150.0093b58c@bbs.galilei.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Gang,

Whoa! Several public and private e-mails are here in response to my recent SGA posting. Here is clarification of a few points where questions have been asked, along with some afterthoughts.

1. 66.5' means a solid wire or stranded wire doublet sixty-six feet and six inches long. Thanks to the tuner used for the portable version this is a non-critical dimension. Ditto for wire size! At one time I used #26 magnet wire for a stealthy example and it worked okay. If you already have a generic 40M doublet on hand then by all means use it. Leave the reflector dimension at about 70 feet after reading section 3 below.

2. W4NVK's article describes resonating an SGA in place with a 50 ohm feedline. His specifically dimensioned dipole is fashioned from 300 ohm twinlead. It produces a good match at a pre-determined frequency in the SSB sub-bands on 40M in conjunction with the three reflectors. Antenna height and reflector placement are critical here. Gene Dusina's original antenna is best suited to installation at a permanent location.

If you want to drop the resonant frequency to the CW sub-bands it will probably require some serious tweaking. The interaction between the dipole and the reflectors will probably be as complicated as configuring a tri-bander. Hmmm! That old tuner is looking better all the time! <g>

3. All three reflectors lay right on top of the grass or on the earth itself. No need to elevate or bury! Stretch them out by terminating the ends in large nails. The nails can be attached to the reflectors or insulated from them. The positioning of the parallel reflectors is important. However, the W4NVK article shows that reflector dimensions can fall within a range and are apparently not critical.

4. Per W4NVK, when using metal end supports separate them from the radiator with three feet or more of non-conductive line. The center support can probably be metal but it is assumed that a non-conductive material will be a better choice, if available.

5. My portable version of the SGA uses seven feet of non-conductive 3/4 inch pvc pipe for the center support and the end supports. These are slipped over hardwood dowels driven in the earth just far enough to keep the assembly stable. With light wire in the doublet (i.e. #22 gauge) overhead weight and sail area are insignificant.

After allowing space for the radiator terminations hacksaw a slot across the top of the two end supports. Pass a non-conductive guy line through the

cuts. Terminate both ends of the guy in large nails or better yet small screwdrivers. It should look like an inverted-vee when finished. Pull the doublet reasonably taut (a little sag is okay) by bending the flexible pvc supports outwards using the guy line for leverage. The slot in the tubing allows it to be re-positioned along the guy and keeps the doublet parallel above the three reflectors.

6. Alligator clips work just fine for attaching any feedline to the portable version of the antenna. Tape heavier RG-8 or twinax to the center support to keep weight off the connections.

7. "SGA" is my nickname, not W4NVK's. "Super Gain Antenna" has always sounded a little scary to me! <g> The "supergain" actually refers (among other things) to signals being turned back towards earth after reaching certain f-layers. In theory, the first hop is a shorter one thus the NVIS classification. The design takes maximum advantage of this lower HF characteristic. Gene Dusina has explained that at higher HF frequencies signals have a tendency to continue out into space. To this let me add "not always"! <g> More info on this subject when I get around to finishing the article though I will be in way over my head on the technical side.

8. October 1969 issues of 73 magazine are hard to come by these days. If you want a copy of W4NVK's two page article send an SASE to: Dave Gauding, 14220 Tullytown Court, Chesterfield, MO 63017.

This message covers all SGA questions received so far and thanks for sending them along. It's nice to see some interest in what I consider to be a totally unappreciated design. I suppose its biggest sin is just being simple!

I trust anyone building the antenna will share their results here on QRP-L. On the lighter side, using a SGA gives new meaning to "the antenna here is a low dipole"! <g>

CUL

de Dave, NF0R      nf0r@slacc.com

-----  
Date: Mon, 11 Jan 1999 22:25:05 -0600  
From: "Marshall Emm" <mgemm@mtechnologies.com>  
To: qrp-1@lehigh.edu, cqclist@mtechnologies.com  
Subject: [29451] Meeting on 1/9  
Message-ID: <199901120524.WAA31190@edison.chisp.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-Transfer-Encoding: 7BIT

On behalf of CQC I'd like to thank member Paul Harden, NA5N, for a really excellent program on solar phenomena and their effects on propagation. I learned a lot from it and I'm sure everybody else did too. I've received a LOT of very favorable comment, and everyone is looking forward to Paul's article in the next Low Down (due out at the end of the month).

We had a record attendance, and despite somewhat crowded conditions it was generally felt that Paul could have gone on for another hour or two without boring anyone.

Thank you Paul!

If you'd like information about CQC please visit our web site at <http://www.cqc.org> or drop a note to [info@cqc.org](mailto:info@cqc.org).

73  
Marshall Emm  
N1FN/VK5FN  
[n1fn@MorseX.com](mailto:n1fn@MorseX.com)  
Morse Express  
"Everything for the Morse Enthusiast"  
<http://www.MorseX.com>  
(303)752-3382  
--

-----  
Date: Mon, 11 Jan 1999 22:57:15 -0600  
From: "Marshall Emm" <mgemm@mtechnologies.com>  
To: radman@best.com, qrp-1@lehigh.edu  
Subject: [29452] Re: anyone try the Bulldog paddle ???  
Message-ID: <199901120556.WAA32491@edison.chisp.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

Content-Transfer-Encoding: 7BIT

>>Surf over to: <http://www.qth.com/k9lu/> and you can check out this little puppy out fur yur self. <<

There's a better picture of the "works" at <http://www.qth.com/k9lu/XT4.htm>

73

Marshall Emm

N1FN/VK5FN

n1fn@MorseX.com

Morse Express

"Everything for the Morse Enthusiast"

<http://www.MorseX.com>

(303)752-3382

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-----  
Date: Mon, 11 Jan 1999 22:57:10 MST

From: "Jerry McCollom WOMC" <w0mc@hotmail.com>

To: qrp-l@lehigh.edu

Subject: [29453] GROUP BUY #2 IS A GO: 10K 10-Turn Potentiometers

Message-ID: <19990112055711.19090.qmail@hotmail.com>

Mime-Version: 1.0

Content-Type: text/plain

Hi everyone,

I've already mailed out individual confirmations to those that replied to my earlier post that the next 10K 10-turn potentiometer group buy is a go. The pricing is the same as last time, \$7 per pot, with the exception that priority mail shipping is now \$3.20. I'll still take \$2 for individual pots and \$4 US covers global priority postage to Canada.

Looks like there will be about a 3 week lead time this go round, but go ahead and send in your order so I can get them out as soon as they arrive from the supplier. I've already placed an order for what has been requested so far, so they should ship out to everyone by the end of the month.

Once again, this is BI Technologies part #7286 10K L.25, a smooth-tuning, wirewound, 10-turn 10Kohm potentiometer. It makes a nice upgrade to your regular linear single-turn 10Kohm tuning pot in rigs like the OHR, NC40, TenTec, etc., and of course, the soon-to-be-here NC20. The first group buy was put together for the NC20 and Dave AD6A reminded me that "this pot was the one we laid the PCB of the Norcal 20

out for. It will fit straight in with a very small amount of lead trimming (with normal sidecutters)."

Here's the updated order form. If you haven't done so already, drop me an email letting me know how many you want so I can keep track of how many I should order. I'll be e-mailing out confirmations of payment as I did last time.

Instructions:

- 1) Include a self-addressed mailing label please!
- 2) Calculate the amount you should send me. If you can, include the order form below or some other reasonable facsimile (either print this or write it on paper or a QSL card, anything is fine).

----- 8< cut here 8< -----

Name and Callsign: \_\_\_\_\_

Quantity: \_\_\_\_\_ x \$7.00 = \$\_\_\_\_\_

+

Shipping: \$ 3 . 2 0  
(Single pots can send \$2.00,  
Canada, please include \$4.00)

=

Total: \$\_\_\_\_\_

----- 8< cut here 8< -----

- 3) Please send a check or money order in US Funds payable to Jerry McCollom. I cannot accept checks made out to Norcal.
- 4) Put the mailing label, order form, and payment in an envelope and mail it to:

Jerry McCollom, WOMC  
1442 Silk Oak Drive  
Fort Collins, CO 80525

Deadline for payment this go round is January 30, 1999.



72,  
Jerry  
WOMC

-----  
Get Your Private, Free Email at <http://www.hotmail.com>

-----  
Date: Tue, 12 Jan 1999 01:28:08 -0500  
From: "Todd Carpenter" <carpentt@citrine.indstate.edu>  
To: "qrp-L" <qrp-l@Lehigh.EDU>  
Subject: [29454] TENTEC ADDRESS  
Message-ID: <11A8EC46B2B@citrine.indstate.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

I am not a wizard or guru, but the address for tentec page is:

<http://www.tentec.com/>

-----  
Date: Tue, 12 Jan 1999 01:52:32 EST  
From: ka7you@juno.com  
To: QRP-L@LeHigh.EDU  
Subject: [29455] My apologies  
Message-ID: <19990111.230843.6407.1.ka7you@juno.com>

It appears that I inadvertently sent a private e-mail regarding the HW-8 and HW-9 to the whole list. I'll try to not do that again.

7 3,

Rod Johnson KA7YOU from grid CN97AK near Issaquah, Wa.  
160M thru 1296 MHz-higher bands pending  
ARCI-QRP #7251 QRP-L #844 NWQRP #120 and others

-----  
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or call Juno at (800) 654-JUNO [654-5866]

Date: Tue, 12 Jan 1999 02:43:24 EST  
From: we6w@juno.com (Ed Loranger)  
To: MAIL4GARY@worldnet.att.net  
Cc: qrp-1@Lehigh.EDU  
Subject: [29456] Re: Iambic paddle usage  
Message-ID: <19990111.233942.4615.4.we6w@juno.com>

Hee, hee! This thread comes up a couple of times every year. I'm right handed but taught myself to send left handed. There was already enough stuff on the bench at the right side -- Soldering iron, writing material, coffee mug, you name it! The left side seemed logical (non-writing side), for me to put the behemoth bug. I have developed a new-found coordination sending the dahs with my thumb on the standard bug setup ==> Dah on the right paddle, dits on the left paddle side.

It is all in how you learn it. Even the argument that the thumb is lazier than the fingers fails because the thumb can be practiced into submission to send as well as your index finger responds to direct the paddle on your key.

I decided to go with using the paddles and bug stock, with the dah on the right. Keeps open all my options -- I can basically use any bug or paddle as it is set up with dahs on the right for bugs, and paddles are usually that way too.

I think it is not so much that one sends dahs with a certain digit, rather it appears that most people have their paddles set up like most bugs, with the dah on the right side of the paddle.

Some left handed senders who don't use a bug or can't find a reversed bug, will switch the paddle wiring. But then they are forever shutting out the possibility of using a bug if they can't find one that is lefthanded.

Besides the safe recommendation you set it up how it feels comfortable to you, I personally believe that one should wire up paddles with the dah on the right and dit on the left, no matter which hand you send with.

And you won't have any problem finding a bug built that way and you will be able to use it.

Just a suggestion.

-Ed

72, Ed WE6W QRP-Z#106 -L#1068, AR Millennium QSO's=107/2000  
<http://www.qsl.net/we6w> Radio, everyday in Santa Rosa, CA  
QRP-L#1068 AR#112 QRP-Z#106 ARCI:9397 Norcal#2227 QAA#006

On Mon, 11 Jan 1999 22:09:43 -0800 "GARY McCAUGHEY"

<MAIL4GARY@worldnet.att.net> writes:

>Bruce and any other interested list reader,

>

> I went from a straight key to a bug. Using a bug....you use the  
>thumb for

>dits.....soooo, it just seems correct to use the thumb dits even with  
>a

>paddle (iambic or single). I think that is the normal (if there is  
>such a

>thing) convention. Also, that way if you want to try out a bug some  
>time

>you won't have to totally relearn how to send.

>

>My two cents.

>

>Gary

>W2UX

>=====

>

>>I am just getting back into CW and have bought an iambic keyer, but

>>wonder which side is best for the dots and dashes? I suspect that it  
>is

>>up to the user, but wonder if there is any "preferred" way.

>>

>>Bruce Jenks, N0EWZ/1

>>bnjenks@snet.net

>>

>>

>>

>

>

---

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or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Tue, 12 Jan 1999 03:41:25 -0500

From: n2tpa@juno.com (Bill B Lazure)

To: QRP-L@Lehigh.EDU

Subject: [29457] RE: How did you get your design background?

Message-ID: <19990112.035355.7646.0.N2TPA@juno.com>

Easy Answer,

I couldn't afford a commercial rig.

When I first became interested in Ham Radio, I lived in Albuquerque. Sandia Nat'l Labs had monthly sales of their surplus electronics. I could get the parts to build a rig for about a dollar. Those cheap parts coupled with a '77 handbook, and I was hooked!

Learning enough to attempt to build a decent receiver took about a year. During that same year, I studied the book and some tapes and got my Novice license.

It's a slow process, but stick with it. Start small. Build simple DC receivers, Power supplies, audio projects, and simple testing devices.

Your confidence will grow. When you're comfortable with parts substitutions and some basic circuits, expand into a new area of design. Keep expanding until you're doing complex design.

Necessity is in fact, the mother of invention!

Bill  
W2EB

---

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Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>  
or call Juno at (800) 654-JUNO [654-5866]

---

Date: Tue, 12 Jan 1999 01:08:11 -0800  
From: David Fifield <fifield@pacbell.net>  
To: qrp-1@lehigh.edu  
Subject: [29458] Norcal 20 Pictures on my WWW Site  
Message-ID: <369B10FB.72322F85@pacbell.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Folks,

By now, you will have read Doug Hendrick's update posting and will be eagerly awaiting the arrival of your kit (if you ordered one!). I have posted some digital pictures (taken with a friend's mega pixel camera - nice piece of Kodak engineering!) on my web site. The pictures show the final case and the final prototype PCB. Hopefully, these will keep your interest peaked until you actually get your kit in the mail!

The piccies are at <http://home.pacbell.net/fifiield/NC20.html>

Please be patient if you go to this www page, the pictures are fairly high quality and are around 300KB each, so the page will take a minute or two to download on a 33 - 56 Kbit/s modem link. If you right click on them when they are completely downloaded, you can view them BIG or save them - on the web page they are shrunk from their real size, but the resolution/bits are all there.

I hope all the hits I get don't take me over my ISP's max. bandwidth allowed for the day/month...

The PCB you get in your kit will be green, not tinned copper like this one - it will have a solder mask (which makes it green) and a full silk screen legend. Does it look like fun yet?

You can see I have put plenty of ground plane in this rig!

Enjoy.  
Dave Fifield, AD6A

-----  
Date: Tue, 12 Jan 1999 07:10:18 -0500  
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>  
To: //QRP-L Discussion Group <QRP-L@Lehigh.edu>, "+Doc W.D. Lindsey/K0EVZ" <70511.3041@compuserve.com>  
Subject: [29459] TS-50 vs Alinco 70x  
Message-ID: <199901120711\_MC2-663D-BBE4@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: 7bit  
Content-Type: text/plain; charset=us-ascii  
Content-Disposition: inline  
Content-Transfer-Encoding: 7bit

Gang:

Anyone out there who has compared the Kenwood TS-50 with the Alinco 70x series of transceivers? In particular, how do the receivers and the QSK compare? Which would \*you\* buy for a compact rig? Any information you can share will be appreciated. Thanks in advance.

Good luck in tonight's FOX hunt.

72/73,  
--Doc Lindsey/K0EVZ  
DSBF

P.O. Box 7187  
Bismarck, ND 58507  
E-Mail 70511.3041@compuserve.com

-----  
Date: Tue, 12 Jan 1999 07:32:21 -0500  
From: Scott Howell <whowell@hq.nasa.gov>  
To: qrp-l@lehigh.edu  
Subject: [29460] [larc-l] DX  
Message-ID: <3.0.5.32.19990112073221.007ea3f0@mail.hq.nasa.gov>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

thought you guys might find this prg of intrest. I haven't tried it, but  
thought to pass it on.

>  
>HD,  
> Try this download program. Using it for a year now and it is great.  
>Gives you automatic DX spots worldwide every 3 minutes to your  
>computer  
>screen:  
>  
><http://www.cruzio.com/~benlo/dxmon.html#download>  
>  
>  
>  
><< End of Forwarded message >>  
>

-----  
Date: Tue, 12 Jan 1999 07:48:13 -0500  
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>  
To: //QRP-L Discussion Group <QRP-L@Lehigh.edu>, "+Doc W.D. Lindsey/K0EVZ"  
<70511.3041@compuserve.com>  
Subject: [29461] FOX Hunt \*tonight\* :-)  
Message-ID: <199901120750\_MC2-6650-CB00@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: 7bit  
Content-Type: text/plain; charset=us-ascii  
Content-Disposition: inline  
Content-Transfer-Encoding: 7bit

Gang:

Tonight is another FOX hunt...and I am looking for \*you\*. Here are the de-tales (OOPS..."details"!):

K0EVZ will be Da FOX \*tonight\* (actually 1/13/99, UTC-wise). Subbing for Brian KB9BVN who is starting medical treatments. He is scheduled to fill my slot on 2/17/99.

Here are the details:

2000-2200CST Tuesday 1/12/99 (this is 0200-0400Z, 1/13/99). I expect to start out about 7.044-7.045 +/- QRM. This has been a pretty good frequency for last couple of evenings.

Setup will be an OHR500 at 5 watts to the TNT/2 window at 33'.

So come one, come all. Let's have a great evening. Fingers crossed here for good propagation for everyone :-).

72/73,

--Doc Lindsey/K0EVZ

DSBF

P.O. Box 7187

Bismarck, ND 58507

E-Mail 70511.3041@compuserve.com

-----  
Date: Tue, 12 Jan 1999 07:07:01 -0600

From: FaithD@mail01.dnr.state.wi.us

To: JGold@ntech.edu

Cc: qrp-1@lehigh.edu

Subject: [29462] Re: Ten Tec mike wiring help

Message-ID: <54F85D7F6DE2D01184EF0000F8049535CCD7C7@MAIL04>

MIME-Version: 1.0

Content-Type: text/plain

Hi Jeff.

Assuming that the 1/4" stereo plug is wired for an Argosy, the mike connections are as follows:

Tip - PTT line

Ring - Mike audio

Sleeve - Ground

Hope this helps, 73 (es 72) de N9WR

-----  
Date: Tue, 12 Jan 1999 08:08:20 -0500  
From: Scott Howell <whowell@hq.nasa.gov>  
To: JoinerR@avionics2.robins.af.mil, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [29463] Re: Flip-Flop  
Message-ID: <3.0.5.32.19990112080820.007ebcb0@mail.hq.nasa.gov>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

truth be told, Ed probably has the worst shack and figures if he can shame some into cleanning their shacks, he'll feel better. See fact is he probably can't find something and is trying to cover it all up by saying he's cleanning his shack and so should everyone else.  
Ok Ed, I aint' cleanning my shack and I bet my shack is cleaner than anyone on this list.<g> I haven't been around long enough to collect parts and probably wouldn't collect to many just for the fact I cant' build much<g>.

72/73 de Scott/n3byy

-----  
Date: Tue, 12 Jan 1999 08:26:51 -0500  
From: "Joiner, Randy - LYSBB" <JoinerR@avionics2.robins.af.mil>  
To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>  
Subject: [29464] Re: Iambic Paddle Usage  
Message-ID: <AD001062E6EFD111AB4A00805F9F46A7740625@mustang>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

The paddle I use is an old sideswiper made by "Autronics" , now defunct I suppose, and I would suspect the time frame of manufacture to be the early to mid 60's. It certainly was not a top of the line keyer, probably closer to the bottom, but it was free. When it was first given to me, I was fairly active in cw traffic nets, often acting as NCS and using a plastic base \$1.98 straight key (which I still have and use!). As you know when running traffic you do need to write everything, so I took the advise of a friend and learned to send left handed. The way this paddle was made it was very simple and comfortable to turn the paddle around backward and rest my left hand on the top. That positioned my fingers coming over the paddle from the top side and still



with thumbs-dit and finger-dah (I use my second finger instead of the index finger). Now I can send with one hand while writing with the other, and its very fast when asking for fills etc. I now send this way all the time and trying to send with my right hand feels "unnatural" . Works for me.

72

Randy N4SX

-----  
Date: Tue, 12 Jan 1999 14:31:29 +0100  
From: Alen Mitrovic <alenm@hermes.si>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [29465] Has somebody XTAL for sale?  
Message-ID: <7519EA69A7D4D111916400A0C955EF61C4BA0A@hal9000.hermes.si>  
Mime-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

If anyone has following crystals for sale please replay direct.  
11,500MHz , 22.970MHz, 29.000MHz

Best regards de Alen / S53MA

-----  
Date: Tue, 12 Jan 1999 08:44:45 -0500  
From: Scott Howell <showell@hq.nasa.gov>  
To: pmk@juno.com  
Cc: qrp-l@lehigh.edu  
Subject: [29466] Re: increasing Sierra audio  
Message-ID: <3.0.5.32.19990112084445.007f2280@mail.hq.nasa.gov>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

tnx for the info, but I should have mentioned for headphone use. I use a headset 99% of the time. I have a little amplified speaker for non-headset listening.

tnx es 72/73 de Scott/n3byy

At 01:44 AM 01/12/1999 +0000, you wrote:  
>After reading about the super duper speaker stuff I had  
>to give it a try. I am not a mathematic geniuses so I got a

>2 inch speaker and a piece of PVC pipe and made a  
>piston to go inside the pipe (1/2 " wood) with a dowel  
>glued to the center. After finding the resonate frequency  
>for my liking (500hz) I glued in the wood piston with  
>cyanoacrylate and snapped off the dowel. Cut the pipe  
>flush with the wood piston then used a coupler on the  
>speaker end as a chamber with a 1" X 3/4" hole and  
>that really boosted the 500hz. I now run the Sierra at 9 to 10  
>o clock on the AF gain. I missed out on the speaker design  
>thread but have had good success with mine.  
>  
>On Sat, 09 Jan 1999 15:26:34 -0500 Scott Howell <whowell@hq.nasa.gov>  
>writes:  
>> ok folks I think I'm not loosing my hearing, but feel like a  
>>little more  
>>audio would be nice. So, I have to turn the af gain about half way or  
>>so  
>>before I feel like I got the level I need especially when looking for  
>>stations in the mud.  
>>I tried several headphones with little luck in the way of increasing  
>>audio.  
>>So, can anyone suggest what would be best done here that would not  
>>change  
>>the rigs pwr requirements etc.?  
>>  
>>just a little more not much dont' need a surround sound system, but  
>>hmmmm  
>>now I think of it, that might be intresting.  
>>  
>>Cw surround sound.hi hi  
>>  
>>tnx es 72/73 de Scott/n3byy  
>>  
>  
>

-----  
Date: Tue, 12 Jan 1999 07:48:07 -0600  
From: "Rattray, Bruce" <Rattray@siast.sk.ca>  
To: Low Power Amateur Radio Discussion <qrp-l@LeHigh.edu>,  
'ccart@dns.vidtel.com' <ccart@dns.vidtel.com>  
Subject: [29467] RE: Flip-Flop  
Message-ID: <ABB04875E11AD01191A40000F83092BEFA19DA@STONE>  
Mime-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7BIT  
Content-Transfer-Encoding: 7BIT

...speaking of shacks....my wife has posted a sign on the shack door....it says "Make sure your insurance is paid up before entering!"...most of the time, it's true....guilty as charged!...HI HI... - 72 - Bruce(VE5RC+VE5QRP)

```
> -----
> From: Chris Cartwright[SMTP:ccart@dns.vidtel.com]
> Reply To: ccart@dns.vidtel.com
> Sent: Monday, January 11, 1999 4:44 PM
> To: Low Power Amateur Radio Discussion
> Subject: Re: Flip-Flop
>
> On Mon, 11 Jan 1999, Joiner, Randy - LYSBB wrote:
>
> > Ed I just couldn't resist....you really ought to see my junk.....er
> > shack!
>
> At least you can see your shack! I have to walk up hill, in the snow,
> both ways, to get to mine... nah, wait, that was something else:)
>
> And you're right Randy, here we go!
>
> -- Chris Cartwright, Technical Engineer | ccart@vidtel.com
> --
> -- N3XRV ARRL-VE Norcal Zombie #163 | Gaithersburg, MD FM19je
> --
> -- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271
> --
>
```

-----

Date: Tue, 12 Jan 1999 08:49:26 -0500  
From: Zack Lau <zlau@arrl.org>  
To: qrp-l@lehigh.edu  
Subject: [29468] Re: Iambic paddle usage  
Message-ID: <369B52E6.5C948C4@arrl.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

The keyer chip sold by Idiom press has a command for reversing the paddles, which makes it easy to practice sending with either hand. That way, you can just send with the hand that matches the paddle.--Zack W1VT

-----  
Date: Tue, 12 Jan 1999 07:12:15 -0700  
From: "Steve/n0tu" <n0tu@webaccess.net>  
To: <alenm@hermes.si>  
Cc: "QRP-L" <QRP-L@lehigh.edu>  
Subject: [29469] Re: Has somebody XTAL for sale?  
Message-ID: <002e01be3e35\$9321b080\$78a8a3cc@S&P.www.webaccess.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Alen, If your building your own modules from scratch and find some of these rocks let me know I'm hunting for some as well! I've found one xtal at 11.525 MHz for 80m and now trying to pull down to 11.500 with added inductor. (a trick another QRPLer told me about) and It's working! But I start with a rock that is reasonably close (maybe off even a whole MHz) just to get the module built and working. Then I hunt for rocks that are closer and pull them in if possible. Actually on 80m starting a little high in frequency is ok. It gets me closer to 3679 for the other QRP freq here in the U.S. If you should decide that you want to buy them let me know maybe we could get a group discount from International Crystal Corp?? I know another Sierra module builder who is in need of xtals also.

TU & 72/73 ...Steve/n0tu-Monument,CO  
<http://www.webaccess.net/~s&p/HRindex.htm>  
-----Original Message-----  
From: Alen Mitrovic <alenm@hermes.si>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Date: Tuesday, January 12, 1999 6:27 AM  
Subject: Has somebody XTAL for sale?

>  
>If anyone has following crystals for sale please replay direct.  
>11,500MHz , 22.970MHz, 29.000MHz  
>  
>Best regards de Alen / S53MA  
>

-----  
Date: Tue, 12 Jan 1999 09:13:36 -0500

From: w2xn@juno.com (Fred J Kalt)  
To: qrp-1@lehigh.edu  
Subject: [29470] TenTec  
Message-ID: <19990112.091336.-968659.1.w2xn@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Thanks to everyone who sent me the web address for Ten Tec. It is so simple I should have thought of it myself. Maybe it was too simple to think of. Right now it doesn't seem to be responding, but I will keep trying to see if it works.

Thanks,

72

Fred W2XN  
Lakeland, FL  
W5YI-VE Skywarn #POL-007 Polk County ARES Net Manager AR QRP  
#233 QRP-L #1728  
My Web Page:  
<http://www.geocities.com/ResearchTriangle/Thinktank/5344/>

-----  
Date: Tue, 12 Jan 1999 09:16:30 -0500 (EST)  
From: afpgreg@state.me.us (Paul V. Gregory)  
To: cw@qth.net  
Cc: qrp-1@Lehigh.EDU  
Subject: [29471] FS: Vibroplex Champion  
Message-ID: <199901121416.JAA01335@gatekeeper.ddp.state.me.us>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

FS: Vibroplex Champion Serial No. 281847, 833 Broadway address, 1968-1969 vintage.  
Grey base, black finger pieces. Chrome is excellent, base and mfg plate are very, very good. Original throughout. \$150.00 shipped (nicely packed) CONUS.

--Paul, N1ZR

-----  
Date: Mon, 11 Jan 1999 21:15:05 -0500  
From: Dale and Judie <dalejudi@agate.net>

To: qrp-1@Lehigh.EDU  
Subject: [29472] Thanks  
Message-ID: <3.0.1.32.19990111211505.007afbb0@agate.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi Everyone ,  
Just wanted to say Thanks to all those that helped me out with  
a computer question , It has been fixed . Now I can practice my code some  
more .  
Hope I got everyone that responded , if not Thanks again .  
Dale   n1txw

-----  
Date: Tue, 12 Jan 1999 08:52:28 -0500  
From: Dick Rucker <rrucker@clark.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Cc: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [29473] Re: Iambic paddle usage  
Message-ID: <v04011703b2c102b86f9d@[207.196.47.58]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 2:43 AM -0500 1/12/99, Ed Loranger wrote:  
>I think it is not so much that one sends dahs with a certain  
>digit, rather it appears that most people have their paddles  
>set up like most bugs, with the dah on the right side of the  
>paddle.

That's what I do, and I'm a lefty.

I learned that doing it the right-handed way makes good sense when dealing  
with certain mechanical things designed for right-handers, such as  
bugs/keyers and M-1 rifles.

Dick

Richard A. "Dick" Rucker  
City of Fairfax, VA  
Amateur radio KM4ML

-----  
Date: Tue, 12 Jan 1999 09:29:04 -0500  
From: w2xn@juno.com (Fred J Kalt)  
To: qrp-1@lehigh.edu  
Subject: [29474] QRP - CW Kits

Message-ID: <19990112.093120.-968659.3.w2xn@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Wonder if I can get some comments on the Ten Tec QRP-CW kits - good or bad comments. (kits: 1320, 1330, 1340 )

Are they easy to build, what is needed for alignment after building, do they measure up to their published specs, etc.

All comments would be welcome.

Thanks,

fred, w2xn

-----  
Date: Tue, 12 Jan 1999 09:43:29 EST  
From: SABorns@aol.com  
To: qrp-l@lehigh.edu  
Cc: jhussey@ee.net, kanga@bright.net, jlawler@columbus.rr.com, mnelson@ix.netcom.com, AA8YY@yahoo.com, himes@opentext.com  
Subject: [29475] ATTENTION CQRP MEMBERS  
Message-ID: <da34c9d.369b5f91@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hello All,

I have set up a CQRP group to make it easier to distribute and post information of special interest to CQRP members. The group is open to all interested in amateur radio and QRP operations. You may subscribe to the CQrp group by simply sending e-mail to: [cqrp-subscribe@egroups.com](mailto:cqrp-subscribe@egroups.com). You can also check out the info at [e-groups.com](http://e-groups.com).

73, Steve K8IDN

-----  
Date: Tue, 12 Jan 1999 9:59:37 EST5EDT  
From: CLESKIE@um-f1.umd.umich.edu  
To: qrp-l@lehigh.edu

Subject: [29476] Re: TS-50 vs DX-70  
Message-ID: <33C185848DF@um-f1.umd.umich.edu>

Wilford

I never used a DX 70, but I did purchase a new ts-50 this year and really like the rig. I considered the DX 70 but went for the Kenwood because of a couple reasons.

One reason was because the TS 50 had the option of a real crystal IF filter for CW (500hz). The Alinco comes with a filter but it's a ceramic filter. I felt it would be better to spend the extra money for the optional filter and get a crystal filter. Another reason for buying the Kenwood was because of the way you have to set the CTCSS tones for 10 meter FM on the Alinco. With the Alinco, you must set dip switches on the bottom of the rig for your tones. On the Kenwood, it's programmable from the menus and can be stored in memory. I have heard some people say that the QSK is not very good on the Kenwood, but mine works great, when I use it. As long as the AGC speed is set right. My TS-50 is a very late model one. Perhaps they have made some improvements in that area.

You might want to check on how many IF's the Alinco has. seems like I read it only had one, not including FM. The Kenwood is dual conversion. The Alinco does have 6 meters which might be important to you in your decision, but it was of no interest to me.

I did have to send my rig out to Kenwood service when I first got it for a defect. It was warranty repair, and this occurred about 2 weeks after I bought the rig. I sent it to Kenwood East, and got the rig back in 8 days and when I got it back it was fixed right the first time. Never had a problem since and it's been about 8 months now. This really impressed me, especially since I also have a late model Yaesu rig which also had to go out for repair once, and it took Yaesu 3 months to get it back to me. I don't know anything about Alinco service, but Kenwood seems great.

If you wish to run the Kenwood QRP, You can crank it down to 5 watts with the simple turn of a pot. I don't run mine QRP though. Most rigs like the Kenwood, Alinco or Icom are very current hungry and will kill batteries pretty quick in the field. I prefer to run QRP with QRP rigs and QRO with a QRO rig.



But thats just my personnal preference. Others may feel different.

Hope this helps

Chuck

-----  
Date: Tue, 12 Jan 1999 10:37:56 -0500  
From: Sam Billingsley <SBillingsley@usaninc.com>  
To: resmith666@uswest.net, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>, "\_Nogaqrp\_List (E-mail)" <nogaqrp@qth.net>, "klqrp\_submit (E-mail)" <klqrp@waterw.com>  
Subject: [29477] Negative grid Keying Rigs with the TICK  
Message-ID: <21E06269B00ED111BE9B00805F6D0FA35B54B4@MAILSERVER1>  
MIME-Version: 1.0  
Content-Type: text/plain

I recently picked up an old HW101 xcvr at hamfest and realized that I had no electronic keyers that could safely handle the negative grid keying (about -60v DC in my case) and I didn't want to use my J-38 straight key all the time. But I did have a TICK keyer in an Altoids box with a little spare room. So I added a SPST switch with the common connection to the keying transistor's collector. I'm using the original TICK board . To one side of the output side of the switch I wired it directly to the output female jack of the box(to the rigs keying point). To the other side of the switch I wired one end of the junk box reed relay (12v DC). To the other side of the relay I wired to the +9v DC transistor battery I use to power the TICK board. To the relay contacts I grounded one end and attached the other contact to the output point in parallel with the original output point of the female chassis connector. Notice the keying transistor is connected to only one of these two output methods at the time even though the relay contacts are in parallel with the output connector at all times.

By flipping the switch you can use it for low +DC voltage keying (like most QRP rigs) or using the active relay position to use the relay contacts to externally key (+ or -) rigs at practically any reasonable voltage (depends on relay contact rating). You could put a diode between to collector and the switch to prevent a BIG -DC voltage being presented to the transistor if you make a mistake and have the switch in the wrong position and try to key the grid block rig.

The junk box reed relay I use will work down to about +7.5v DC and uses about 10 mA. You may need a stiffer power supply depending on your relay. When the switch is in the normal position ( QRP positive keying) the relay

is disconnected.

This will also solve problems where the internal TICK keying transistor doesn't work with one of you rigs. The relay closure will give a solid zero ohm ground to you rig.

Sam Billingsley     AE4GX     Atlanta,GA

-----  
Date: Tue, 12 Jan 1999 10:53:01 -0500  
From: "Ed Tanton" <n4xy@mindspring.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Cc: "Sam Billingsley" <SBillingsley@usaninc.com>, "\_Nogaqrp\_List (E-mail)" <nogaqrp@qth.net>  
Subject: [29478] RE: [NoGaQRP] Negative grid Keying Rigs with the TICK  
Message-ID: <003501be3e43\$a20ca060\$01010101@n4xy>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="Windows-1252"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Having a lot of boat anchors, and a few modern rigs mixed in, I have pondered this problem long and hard. My only conclusion is your solution-a switch, with both methods of keying available. Nice work Sam.

72 / 73   Ed   N4XY   email: <n4xy@mindspring.com>

-----  
Date: Tue, 12 Jan 1999 10:56:06 -0500  
From: Bill Wetherill <n2wg@wilmington.net>  
To: qrp-1@Lehigh.EDU  
Subject: [29479] FS: OHR 400; OHR 100A; BRASS RACER  
Message-ID: <1.5.4.32.19990112155606.00666f90@wilmington.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

FOR SALE:

OHR 400 with built in keyer.   4 band QRP rig.   \$260.  
OHR 100A (40 meters) \$80.  
Vibroplex Brass Racer iambic paddle (triangular)   \$80.

All in excellent condition and include shipping CONUS.

Contact: Bill at <n2wg@wilmington.net>

Tnx es 72,

Bill - N2WG

"PURITY OF ESSENCE" --- QRP

-----  
Date: Tue, 12 Jan 1999 08:11:39 -0800  
From: Bill Jones <kd7s@psnw.com>  
To: qrp-1@lehigh.edu  
Subject: [29480] RE: What is PSK31  
Message-ID: <369B743B.32E84D1E@psnw.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Friends,

Several people asked, "What is PSK31" in response to my query. PSK31 is a new, experimental "keyboard-to-keyboard" communication mode using phase shift keying instead of frequency shift keying like RTTY. It uses a 31 baud keying rate to minimize bandwidth, hence the name, PSK31.

I am on the ragged edge of trying it myself as soon as a gazillion other projects are out of the way. This sounds like an ideal QRP mode.

There is a web site dedicated to PSK31.

<http://aintel.bi.ehu.es/psk31.html>

Also, there is a fair amount of discussion on the wf1b-rtty reflector about PSK31.

That's all I know now.

--

=====  
Bill Jones - KD7S <><  
Sanger, California  
<http://www.psnw.com/~kd7s>  
=====

-----  
Date: Tue, 12 Jan 1999 11:19:34 -0800

From: af852@rgfn.epcc.edu  
To: ve6bpr@cnnnet.com, qrp-1@lehigh.edu  
Subject: [29481] Re: 2 MTR to 80 MTR Transverter  
Message-ID: <369BA046.31D@rgfn.epcc.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

I believe that there was a like transverter advertised in Radcom and in Amateur Radio (Australia) some years ago, to take advantage of the novice rigs that used 2 but wanted to work the 80m novice band. There was also an article in the original 73 magazine of the late 60/early 70's about converting various VHF radios to the 160/80 meter band. Those conversion schemes might be a help in your quest. gl  
73  
--

-----  
Ray Colbert,  
(also w5xe@juno.com)  
El Paso, Texas (Far West Texas)

-----  
Date: Tue, 12 Jan 1999 16:28:46 GMT  
From: mwattcpa@earthlink.net (Marty Watt)  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [29482] Re: Iambic paddle usage  
Message-ID: <369d7742.343577@mail.earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: quoted-printable  
Content-Transfer-Encoding: quoted-printable

On Mon, 11 Jan 1999 20:12:45 -0500, Bruce & Susan Jenks =  
<bnjenks@snet.net>  
wrote:

>I am just getting back into CW and have bought an iambic keyer, but  
>wonder which side is best for the dots and dashes? I suspect that it is  
>up to the user, but wonder if there is any "preferred" way.

I have a V2L (by WBL designs) and it uses RCA jacks for the cable =  
connection.  
By using them, you can swap the "polarity" of the paddle with little  
difficulty. The cables to go from 2 RCA plugs to a single 1/8" stereo =  
plug is  
widely available.

--

72 es 73 de Marty, KM7W

-----  
Memphis, Tennessee

<http://home.earthlink.net/~mwattcpa>

VE -- NorCal #2031 -- ARCI #7514 -- QRP-L #0953 -- AK/QRP #098 -- Grid =  
EM55ce

CODE WARRIOR(c) #29 -- Mobile CW -- "Taking Code on the Road with a =  
Vengeance"

-----  
Date: Tue, 12 Jan 1999 11:32:44 -0500  
From: John Levreault <jlevro@mediaone.net>  
To: rrucker@clark.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [29483] Re: Iambic paddle usage  
Message-ID: <369B792B.5706824A@mediaone.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Dick Rucker wrote:

> I learned that doing it the right-handed way makes good sense when dealing  
> with certain mechanical things designed for right-handers, such as  
> bugs/keyers and M-1 rifles.

...and playing the guitar, but then again I think righties do it backwards.

73 de nb1i  
"Lefty" John

-----  
Date: Tue, 12 Jan 1999 10:33:22 -0600  
From: Dave Sjolin <sjolin@swbell.net>  
To: kd7s@psnw.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [29484] Re: What is PSK31  
Message-ID: <369B7952.1390C92D@swbell.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Bill Jones wrote:

> Several people asked, "What is PSK31" in response to my query. PSK31 is  
> a new, experimental "keyboard-to-keyboard" communication mode using  
> phase shift keying instead of frequency shift keying like RTTY. It uses  
> a 31 baud keying rate to minimize bandwidth, hence the name, PSK31.

Bill, you might also mention that software is available (believe  
Shareware) that will enable one to transmit and receive PSK31 with the  
Sound Blaster audio card in their PC.

So anyone who has a PC with Sound Blaster in their shack, could give it  
a try right away. On 40 meters, you might listen on 7097 or possibly  
7070.

73 de Dave, N0IT

-----  
Date: Tue, 12 Jan 1999 08:51:46 -0800 (PST)  
From: Jim Knopf <ki7q@yahoo.com>  
To: QRP-L Maillist <qrp-l@Lehigh.EDU>  
Subject: [29485] Norcal 40A VFO tuning modification  
Message-ID: <19990112165146.644.rocketmail@send101.yahoomail.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

I'd like to modify my Norcal 40A VFO as suggested on page 24 of the  
manual.

There, it says that C49 can be made larger to cover a wider range.

Questions:

1. How much larger? Right now, it is 47pf. Will doubling it double  
the VFO range? What would be the suggested value for C49 to cover,  
say, 100 khz?
2. Will the change spread the VFO out equally both directions? That  
is, will the spread go both lower and higher in frequency? Or will it  
move the VFO mostly one way or the other?

Not knowing much about 'tronics, I could sure use some help or advice  
with this modification.

==

Jim, KI7Q FISTS#5802 QRP-L#1689 Grid#CN87xp  
<http://www.halcyon.com/knopf/jim>

-----  
DO YOU YAHOO!?

Get your free @yahoo.com address at <http://mail.yahoo.com>

-----  
Date: Mon, 11 Jan 1999 12:32:31 -0500  
From: "Prof.Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>  
To: <qrp-1@LeHigh.edu>  
Subject: [29486] RE: NVIS Antenna impedance  
Message-ID: <000401be3e4c\$1df53b80\$04000a0a@nwarfiel.usf.edu>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

The C02KK PRACTICAL LOW COST NVIS ANTENNA SYSTEM

NVIS Works !

And it helps a lot when handling emergencies like the frequent Hurricanes here in the Caribbean.

Here are a few notes about one of them, that I think will help those contemplating the installation of an NVIS system, either as a permanent or emergency antenna.

C02KK's approach to LOW COST NVIS

1. This simplest possible NVIS design is just a dipole , for 160, 80 or 40 meters which is installed close to the RF ground...I prefer to install it close to a "real ground" , but have tested the concept as a rooftop installation on buildings with reinforced concrete roofs with excellent

results... roof has to be large enough for the real NVIS radiation to develop.

2. The height above ground of that simplest NVIS will no less than four different effects on the antenna..

- a) It will make it a "very quiet antenna" as compared to a regular dipole at say 0.5 wavelength above the RF ground
- b) It will increase the losses
- c) It will lower the antenna's impedance quite a bit !
- d) It will provide " parasitic element gain" of no less than 4 dB

3. For a typical NVIS devoted to 7 MHz work , my "out or practical experience parameters" are the following...

- a) Length of half wave dipole, as per regular formula
- b) Dipole is configured as a FOLDED DIPOLE... with the two wires separated about 50 centimeters ( this will broadband the antenna a bit too, and makes it "better looking too".
- c) The antenna is installed at 0.1 wavelength above RF ground, which is about 4.2 meters... ( you can move up the antenna up and down and do some nice experiments, but more about that later)
- d) The antenna is fed using a 1 to 1 BALUN... Why ? Well because due to the close proximity to the "REFLECTOR" ( the RF ground) the normal roughly 300 ohm impedance of the folded dipole will move down to near 50-70 ohms ( depending on surrounding objects etc)... This then will be 50 to 70 ohms balanced, so it is good engineering practice to include a 1 to 1 balun, or a lower cost RF decoupler made from several turns of the coax feedline
- e) Antenna is adjusted to minimum SWR by moving it up and down in height !... Or you can just forget about that, and install an antenna tuner to make your rig see 1 to 1 SWR at 50 ohms !

As some may have realized already, the system will "behave" like a two element parasitic array ... a two element Yagi which is beaming straight upward !

Hope this ULTRA SIMPLE NVIS system will be of good use for both QRP and QRO operators, especially if relatively short distance communications are needed during an emergency

The same criteria apply for the 160 and 80 meter antennas, the only thing is that the masts will have to be taller !

One final comment, you may add a wire reflector below the antenna, insulated from the ground, but very close to it... resonate the reflector wire about 5 % lower in frequency from the resonance frequency of the dipole....

The NVIS CO2KK ULTRA SIMPLE antenna system is NOT PATENTED... NOR PATENT APPLIED FOR... it is in the public domain available to help anyone that may need it ...

My advise... keep one handy with your emergency communications kit !

Any doubts... just e-mail direct to



arnie@radiohc.org  
or  
inforhc@mail.infocom.etecsa.cu

Arnie Coro  
C02KK

-----  
Date: Tue, 12 Jan 1999 08:54:42 -0800  
From: Bill Jones <kd7s@psnw.com>  
To: qrp-l@lehigh.edu  
Subject: [29487] Re: What is PSK31  
Message-ID: <369B7E52.3B3B590D@psnw.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Dave Sjolín wrote:

> Bill, you might also mention that software is available (believe  
> Shareware) that will enable one to transmit and receive PSK31 with the  
> Sound Blaster audio card in their PC.

Dave is right. It is available for download at  
<http://aintel.bi.ehu.es/psk31.html>  
The file name is p31sbw103.zip

Plan to spend some time reading the Help files.

--

=====  
Bill Jones - KD7S <><  
Sanger, California  
<http://www.psnw.com/~kd7s>  
=====

-----  
Date: Tue, 12 Jan 1999 09:06:22 -0700  
From: alan dawkins <alk0frp@earthlink.net>  
To: qrp-l@lehigh.edu  
Subject: [29488] Surface mount Electroletics  
Message-ID: <369B72FE.8ADA76BE@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

I am looking for 100 uf 15v or higher electroletic caps. Surface mount. I have a couple of 10uf that may work. This for my RTTY interface going into a DB-9 shell , op amps, 5 diodes, 4 resistors, and two xistors. No room for normal sized caps . Digi Key has them for 10/\$15.00 , I think a bit high, is there another source. Looked at most of the web site pages and no luck. These will just filter the - and + volts lines from the com port of my laptop. I have a discret one built and working but just like to make this thing invisible.

Al K0FRP

-----  
Date: Tue, 12 Jan 1999 11:21:19 -0600  
From: Jeff Johns <jeffj@scott.net>  
To: qrp-l@Lehigh.EDU  
Subject: [29489] Thanks!  
Message-ID: <199901121721.LAA09259x@scott.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 8bit  
Content-Transfer-Encoding: 8bit

Thanks everyone for the wealth of information concerning the buliding of a kit for a newcomer such as myself. I think I'm going to feel quite comfortable in this group <grin>.

73 Jeff W4JEF

```
*----- Jeff Johns W4JEF - AMSAT# 32615 -----*
|jeffj@scott.net w4jef@amsat.org | Reserve Patrol Captain |
| Satellite: Mir R0MIR-1, AO-27 | Jefferson County Sheriff's Dept|
|200LX+BayPac+FT50=Portable Packet| QTH Birmingham, AL USA |
*-----*
```

-----  
Date: Tue, 12 Jan 1999 11:30:03 -0600

From: Jim <kj5tf@madisoncounty.net>  
To: qrp-l@Lehigh.EDU  
Subject: [29490] Patcomm PC-9000 - need info  
Message-ID: <369B869B.739@madisoncounty.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Anyone have any info or reviews on this rig?

Power consumption on RX?

To me from what Ive picked up on QRP-L the QRP+ is favored as a CW QRP rig & less favored at SSB, while the SGC-2020 is looked at as the better choice for SSB.

The PC-9000 is SSB/CW 5/40w - 20w on 6M, 160-6M , SCF, optional FM module, and optional plug in RTTY.

The basic price is listed in AES @ \$799.99 - Seems high to me, but I'm a skintflint so its all sticker shock to me!

Thanks for any info - Jim KJ5TF AR QRP #2

-----  
Date: Tue, 12 Jan 1999 12:36:15 EST  
From: SABorns@aol.com  
To: heath@listserv.tempe.gov  
Cc: qrp-l@lehigh.edu  
Subject: [29491] HW-9 knob  
Message-ID: <17c87b5b.369b880f@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

Gang,

Does anyone out there have a small Heath knob for a HW-9. I am currently debugging a rig that was started by a ham a number of years ago but not finished. He is now disabled and asked me to see what I can do. Have found a multitude of faults but just about have it up and running. I would like to present it to him with original knobs.

73, Steve K8IDN  
-----

Date: Tue, 12 Jan 1999 11:18:05 -0800 (PST)  
From: David J Adams <adamsclan@netgate.net>  
To: qrp-1@lehigh.edu  
Subject: [29492] Project help  
Message-ID: <199901121918.LAA19883@u1.netgate.net>

So, I have an old Tek 604 monitor sitting on my desk. We used to use it to display dot plots on our cytometers at work. It has the standard x, y and z inputs plus a db25 for some such. It is a project waiting to happen, but I'm a bit stumped for any useful purposes to put it to. Any ideas?

73 de dave, n9uxu

-----  
Date: Tue, 12 Jan 1999 14:25:44 -0500 (EST)  
From: Laura Denise Halliday <lha@sdr.utias.utoronto.ca>  
To: qrp-1@lehigh.edu  
Subject: [29493] Re: Surface mount Electroletics  
Message-ID: <Pine.SOL.3.92.990112142225.14116A-1000000@madrox>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Al K0FRP asked about SMD electrolytics.

These are an item that is easy to harvest from surplus computer boards and junk consumer electronics. My box of junk computer boards will supply all the SMD electrolytics I'll need for some time to come...

They blow up very nicely if you hook them up backwards. :-)

Laura Halliday VA3LDH "Que les nuages soient notre  
Grid: FN03gs pied a terre..."  
- Hospital/Shafte

-----  
Date: Tue, 12 Jan 1999 11:30:10 -0800  
From: "Michael A. Gipe" <mgipe@reliablemeters.com>  
To: <adamsclan@netgate.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [29494] Re: Project help  
Message-ID: <235001be3e61\$fa8ee090\$140a0a0a@double\_trouble.reliablemeters.com>  
MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Nice little box, Dave. Unfortunately, technology has made this kind of equipment pretty much obsolete. However, it would make a pretty nice dedicated display for a Wes Hayward or Steve (melt solder) Weber spectrum analyzer adapter.

Mike K1MG

-----Original Message-----

From: David J Adams <adamsclan@netgate.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Date: Tuesday, January 12, 1999 11:17 AM  
Subject: Project help

>So, I have an old Tek 604 monitor sitting on my desk. We used to use  
it to dis  
>display dot plots on our cytometers at work. It has the standard x,  
y and z  
>inputs plus a db25 for some such. It is a project waiting to happen,  
but  
>I'm a bit stumped for any useful purposes to put it to. Any ideas?  
>  
>73 de dave, n9uxu

-----  
Date: Tue, 12 Jan 1999 12:43:21 -0700  
From: "James R. Duffey" <jr3m@maxwell.com>  
To: qrp-l@Lehigh.EDU  
Subject: [29495] The Importance of Baluns  
Message-ID: <v03007803b2c001d74bf3@[199.120.49.101]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Let me put in my \$0.02 on this topic.

I beleive it is important to have a balanced to unbalanced "transformer"  
(Balun) any place where a transition between balanced and unbalanced  
configurations occurs. A dipole fed with coax fits into this category.

The reason is simple; I like to have antennas and feedlines operate the way  
they are designed to operate. That is a dipole should have equal currents

in each leg, and a coax feeder should have no current flowing on the outside of the braid. If my antenna/feedline is behaving like a dipole/run of coax should then I understand how it works; I know what to look at when something goes wrong with it, I know that feedline measurements made are accurate, I can have a well defined ground system, it will behave the same whether or not the coax is in close proximity to metallic objects, and I know in which directions I can expect to make contacts and where I don't expect to make contacts. If the behavior of the antenna changes I know it is in the antenna-feedline system and not in the grounding, house wiring, or any accessories inserted into the feedline.

You can put up a dipole, feed it with coax and omit the balun. Such an antenna will yield lots of contacts, some of them DX, and will give you a lot of fun. I don't deny that. However if you make an air choke balun out of the first 10 feet or so of Coax (see the Handbook or Antenna book for details on how to build one) you will have a dipole that acts like a dipole, a feedline that acts like coax should, and you can make predictions on how such a combination works and be fairly close to right. The additional cost of coax is less than \$5 and I don't see any reason not to do this. I have erected dipoles without baluns and had fun with them, but I don't do it anymore. If I am going to all the work of putting up a new antenna I want to "do it right". To me doing it right means including a balun. Particularly if you are a beginner, when you have problems with your antenna often the first question asked by an Elmer is "Do you have a balun?". That is one of the first questions I ask. A balun eliminates a whole lot of antenna/feedline variables and makes resolving antenna problems easier. It isn't just a matter of caring about directionality.

The dipole/coax antenna is not the only antenna that has problems with balanced/unbalanced terminations. The common J-Pole has this problem twice, once in the Coax to balanced quarter wavelength stub, and once in the stub to radiating element.

I don't mean this as a personal attack or flame on anybody. But I think to recommend to a beginner to erect a dipole/coax antenna/feedline system without a balun is doing a big disservice to the beginner. In general, the antenna will behave better than one without a balun, and trouble shooting it will be much easier. Adding a balun is easy, and inexpensive if an air choke type is used. I don't see any reason not to add a balun; personal anecdotes about successful balunless antennas included. The balun is not essential to the operation of an antenna/feedline system, and is not a cure all for all antenna ills, but, in my opinion, erecting an antenna without one is a bit like operating a car without a spare tire. - Dr. Megacycle  
KK6MC/5

30 Casa Loma Road  
Cedar Crest NM 87008

-----  
Date: Tue, 12 Jan 1999 11:47:18 -0800 (PST)  
From: Patrick Franzis <old\_radios@yahoo.com>  
To: QRP list <qrp-l@Lehigh.EDU>  
Subject: [29496] Kenwood Service recommendations  
Message-ID: <19990112194718.16377.rocketmail@send102.yahoomail.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Hi friends,

Can anyone recommend a place to have Kenwood rigs repaired?  
Private email is ok.  
Thanks!

==  
== Patrick Franzis  
== Email : old\_radios@yahoo.com  
== or radios@email.com  
== N10CJ  
==

-----  
DO YOU YAHOO!?  
Get your free @yahoo.com address at <http://mail.yahoo.com>

-----  
Date: Tue, 12 Jan 1999 14:25:03 -0600  
From: vlantz@juno.com (Vann G Lantz)  
To: qrp-l@Lehigh.EDU  
Subject: [29497] Re: The Importance of Baluns  
Message-ID: <19990112.142848.12782.0.VLantz@juno.com>

I have about 25 feet of RG8 (I love big coax) feeding my inverted vee.  
Would I need a balun?

If so, can someone explain about making:  
>an air choke balun out of the first 10 feet or so of Coax

Vann Lantz, KF4QHJ, AL  
QRP-L #1790, AR QRP #241  
VLantz@Juno.Com

[Http://members.xoom.com/VLantz/home.htm](http://members.xoom.com/VLantz/home.htm)

"If there is no God, then who pops up the next Kleenex in the box?"

-----  
You don't need to buy Internet access to use free Internet e-mail.  
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>  
or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Tue, 12 Jan 1999 12:41:39 -0800  
From: W7LS <w7ls@blarg.net>  
To: 70511.3041@compuserve.com  
Cc: qrp-l@lehigh.edu  
Subject: [29498] Re: TS-50 vs Alinco 70x  
Message-ID: <369BB383.41D6@blarg.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi, Doc. I have them both. In fact, I have 2 of the TS-50 rigs with accessory cw filters, and one DX-70T. One for each car and one for the shack. They are very comparable. Both are current hogs, but the Alinco is a little less hungry. Both perform well. The TS-50 forces you to use the narrow cw filter if you are in cw mode. I don't really like that, but it's ok. The Alinco has the neat feature of being able to pop the front panel off and put it somewhere else, remotely. Also, the DX-70T has 6 meters, not that I ever use it. I like the way the Alinco operates a bit better than the Kenwood, but not significantly.

All in all, either are superb rigs. BTW, the Alinco comes stock with the cw filter. I'd go for the Alinco, mostly because of the slightly better features (very slight) and the cheaper price, as it isn't one of the 'big 3' names. Great value for the buck.

73 de Jim, W7LS

Wilford D. Lindsey wrote:

>  
> Gang:  
>  
> Anyone out there who has compared the Kenwood TS-50 with the Alinco 70x



> series of transceivers? In particular, how do the receivers and the QSK  
> compare? Which would \*you\* buy for a compact rig? Any information you  
> can share will be appreciated. Thanks in advance.

>

> Good luck in tonight's FOX hunt.

>

> 72/73,

> --Doc Lindsey/K0EVZ

> DSBF

> P.O. Box 7187

> Bismarck, ND 58507

> E-Mail 70511.3041@compuserve.com

-----

Date: Tue, 12 Jan 1999 12:55:57 -0800 (PST)

From: David J Adams <adamsclan@netgate.net>

To: adamsclan@netgate.net, mgipe@reliablemeters.com, qrp-l@Lehigh.EDU

Subject: [29499] Re: Project help

Message-ID: <199901122055.MAA28153@u1.netgate.net>

Mike,

Well, actually the obsolescence is half the point! Too much fun  
using old stuff to just toss it out.

As per the project, EVERYBODY says use it for the SA, so SA it is!  
Does anybody have a pointer to info on the Hayward/Weber adapters?

73 de dave, n9uxu

-----

Date: Tue, 12 Jan 1999 14:03:27 -0700

From: Niel Skousen <skousen@srv.net>

To: vlantz@juno.com, qrp-l@lehigh.edu

Subject: [29500] Re: The Importance of Baluns

Message-ID: <4.1.19990112135331.009c9ba0@if.scientech.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Vann,

if you make a coil of 5-8 turns abt 1ft in diameter right at the feedpoint  
of the dipole/InvertedV you've made an air choke balun...

The self impedance of the coil is seen by any currents flowing only on the  
shield (eg coupled from the antenna etc) while transmission line currents

(flowing in the coax) are unimpeded. This gives a moderate balun performance for essentially no cost. There are probably 101 ways to improve the basic behavior. This is also sometimes done by slipping a handful (scientific measure \*8=) of ferrite cores over the last foot of coax nearest the antenna..

Both do exactly the same thing, keep the current in the coax equal and opposite, the conditions required for transmission line behavior.

Good luck !!

PS: another cheap addition is a small 2k-3k (1/2w or so) resistor across the coax/dipole. This is high enough impedance not to impact the radiation performance, but will keep you from developing static (wind static and p.static) across the antenna terminals when you forget to ground the antenna in a mild storm Also tends to make the antenna just a touch quieter by eliminating static impulses coupled to the antenna by light breezes and other mechanisms which are not enough to spark/arc/cause damage but which are detectable in the receiver...

At 02:25 PM 1/12/99 -0600, you wrote:

>I have about 25 feet of RG8 (I love big coax) feeding my inverted vee.

>Would I need a balun?

>

>If so, can someone explain about making:

>>an air choke balun out of the first 10 feet or so of Coax

>

>Vann Lantz, KF4QHJ, AL

>QRP-L #1790, AR QRP #241

>VLantz@Juno.Com

>Http://members.xoom.com/VLantz/home.htm

>"If there is no God, then who pops up the next Kleenex in the box?"

>

>

>-----  
>You don't need to buy Internet access to use free Internet e-mail.

>Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>

>or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Tue, 12 Jan 1999 16:02:00 EST

From: Wa2eaw@aol.com

To: QRP-L@LEHIGH.EDU

Subject: [29501] Help in feeding long wire.

Message-ID: <7c9cee01.369bb848@aol.com>

Mime-Version: 1.0

Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

To all;

I have a sneaky long wire on the condo roof( forbidden ) It is end fed by coax that snakes down the side of the condo to my patio, and then to the antenna jack on the back of the rig. My question is...I imagine that the coax between the rig and the bare wire on the roof is now part of the long, end fed wire.

Is this good,bad or what ever.

Help in this question is appreciated.

Thanks et 72/73 de Wa2EAW..Bob

-----

Date: Tue, 12 Jan 1999 16:12:32 -0500

From: Sam Billingsley <SBillingsley@usaninc.com>

To: vlantz@juno.com, "\_Nogaqrp\_List (E-mail)" <nogaqrp@qth.net>, "Qrpl\_Submit (E-mail)" <qrp-1@Lehigh.EDU>

Subject: [29502] RE: The Importance of Baluns

Message-ID: <21E06269B00ED111BE9B00805F6D0FA35B8179@MAILSERVER1>

MIME-Version: 1.0

Content-Type: text/plain

Just wind the coax about 6-8 turns in a 6 inch diameter coil and tape this about 3 or 4 places. This coiled coax should be as close to the center insulator as possible. But this is Big, Heavy and Ugly so one of the smaller 100 W commercial ones would look better.

If you going to just run QRP power I would make a very small one using a small toroid and enamel insulated wire and put this into a 35MM film can or a medicine pill bottle. The ARRL Handbooks all have the winding instructions.

But truly if you just 25 ft of feed the radiating wire elements are probably close enough to the house or building to be affected anyway so the Balun will probably not help and in fact for QRP levels just introduce some loss.

The Balun is primarily useful to provide a balanced feed a dipole in the open space to give a symmetrical radiation pattern. You can't usually get that when the antenna is that close to stuff unless its 15/10 mtrs.

Sam AE4GX NOGA Atlanta, GA

>>>snip >>>

> I have about 25 feet of RG8 (I love big coax) feeding my inverted vee.  
> Would I need a balun?  
>  
> If so, can someone explain about making:  
> >an air choke balun out of the first 10 feet or so of Coax  
>  
> Vann Lantz, KF4QHJ, AL  
    >>>snip>>>

-----  
Date: Tue, 12 Jan 1999 13:11:06 -0800  
From: "Michael A. Gipe" <mgipe@reliablemeters.com>  
To: "David J Adams" <adamsclan@netgate.net>, <qrp-1@Lehigh.EDU>  
Subject: [29503] Re: Project help  
Message-ID: <237001be3e70\$144ef250\$140a0a0a@double\_trouble.reliablemeters.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

>Does anybody have a pointer to info on the Hayward/Weber adapters?  
>  
>73 de dave, n9uxu

Bill Kelsey of Kanga US has boards and parts kits.  
Wes has a web site at <http://www.teleport.com/~w7zoi/sa.html>

That should take care of it. Good luck!

Mike K1MG

-----  
Date: Tue, 12 Jan 1999 16:18:06 -0500  
From: Sam Billingsley <SBillingsley@usaninc.com>  
To: lewise@inetport.com, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [29504] RE: 6 Pack Plug and Play xmitter done  
Message-ID: <21E06269B00ED111BE9B00805F6D0FA35B8180@MAILSERVER1>  
MIME-Version: 1.0  
Content-Type: text/plain

The #93 blub is acting like a dropping resistor to the final transistor (ie

your getting less than 12v to the collector). You should not need blub and the rig should work directly from the 13.8 (12v) power source. If the transistor is in good shape you should get the 1watt or so out. I haven't finished mine yet but I am close.

Sam Billingsley AE4GX Atlanta, GA

>>>snip>>>

> Subject: 6 Pack Plug and Play xmitter done  
>  
> Well, I finished her up a little while ago and fired it up into  
> the dummy load.....A little twiddle of the trimmer on the osc  
> and away she went.....  
>  
> The WM-2 says about 250 milliwatts...That's at about 11.5 volts...  
> Feeding the V+ through a #93 bulb, and it takes the 13.8 voltage  
> down a little and just bearily glows.....  
>  
> Now to find out why its not putting out 1 watt!! :-)  
>  
> Anybody else got one built up and running???  
>  
> If you're at the San Antonio Swapfest tomorrow, maybe I'll see you....  
>  
> Larry KA5T  
> Debugger One  
> Zombie Zero  
>  
> :-)  
>

-----  
Date: Tue, 12 Jan 1999 14:46:12 -0700  
From: "James R. Duffey" <ji3m@maxwell.com>  
To: qrp-1@Lehigh.EDU  
Subject: [29505] Re: The Importance of Baluns; Currents in Coaxial Lines  
Message-ID: <v03007809b2c172d7019a@[199.120.49.101]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Niel - Thanks for your comments;

"I know you meant un-balanced currents in the shield, but a few might mis-understand. There should be only equal & opposite currents in any transmission line. Deviation from these conditions leads to line radiation and field perterbance et ad nauseum."

I am not sure I fully understand your comments on the unbalanced currents in the shield. I am fairly sure the confusion is on my end though.

I will elaborate on my comments in hopes that what I am trying to say will be more clear.

A properly functioning coaxial transmission line should have one current on the inner conductor and an equal and opposite current on the inside of the braid. No current flows on the outside of the coaxial cable braid. In this coaxial transmission line mode, the external fields will be zero, and the transmission line cannot be affected by external sources, like noise sources, or large masses of metal that may be nearby. There will be no radiation from the line in this properly functioning coaxial transmission line.

If this coaxial line is connected to an antenna in which the currents are not of equal and opposite magnitude, there will be current flow on the outside of the cable, and external sources can influence the transmission currents, which can lead to all sorts of problems, some of which you allude to above (or no problems if one is fortunate). A properly designed balun insures that the currents on the outside of the coaxial are "choked off", or eliminated, and that the only currents flowing in the coax are on the inside, thereby insuring isolation of the transmission line from the external world.

I see that my original post was too brief in this manner and I hope that this explains in more detail what I meant to convey. I am not sure your comments are in conflict with these statements. If there is still some confusion, let me know and I will pontificate further.:^)

I hope that this clears up matters rather than further obfuscating them. -  
Dr. Megacycle KK6MC/5

James R. Duffey        KK6MC/5    DM65tc    <jamesd1@flash.net>  
30 Casa Loma Road  
Cedar Crest NM 87008

-----  
Date: Tue, 12 Jan 1999 16:01:20 -0600  
From: Dave Sjolín <sjolin@swbell.net>  
To: Wa2eaw@aol.com, Qrp-1 Reflector <qrp-1@Lehigh.EDU>  
Subject: [29506] Re: Help in feeding long wire.  
Message-ID: <369BC62F.391CB621@swbell.net>  
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Wa2eaw@aol.com wrote:

>

> To all;

> I have a sneaky long wire on the condo roof( forbidden ) It is end fed by coax  
> that snakes down the side of the condo to my patio, and then to the antenna  
> jack on the back of the rig. My question is...I imagine that the coax between  
> the rig and the bare wire on the roof is now part of the long, end fed wire.  
> Is this good,bad or what ever.  
> Help in this question is appreciated.

Bob, you are right to assume that the coax is now part of your antenna and not just your feedline. From your description, it sounds like you are not using a tuner. If not, I would think your antenna would be quite lossy. Unless your wire is cut to a particular length (1/4 wave, I believe), I would think that your rig would face a high swr that would reduce your power output and/or burn out your final transistors. Are you making contacts with this antenna now or just listening?

Here's what I would do:

I would get a tuner and I would connect the center conductor of your coax to the single wire connector on the tuner.

Next, I would get wire (rotor cable, twinlead also okay) and I would cut a quarter wave length radial or counterpoise for each band that you intend to operate. With the rotor cable or other multi wire cable you can have one cable with each wire that is part of it cut to a different length. If you only have a rig for one band, then you only need a single wire cut to a quarter wavelength on that band. Connect all of these to the ground connection on your tuner. Run the counterpoise wires along the wall to keep them out of the way. If you have a true ground that you can connect to do that as well. In my case, I had an outside faucet that was fed by a pipe that went directly underground. This faucet was only about three or four feet from my radio desk. Lucky HI. Both the counterpoise wires and the earth ground reduce the losses you get from having an unbalanced antenna.

What are you doing for lightning? At the very least you want some way to get that antenna disconnected from your radio and hopefully grounded during storms. If you are not concerned about safety, think LIABILITY.

I would put some clamp on rf filters on all of your AC cables and interconnect wires in your shack to prevent any rf from your antenna getting into the house wiring via your radio. You may still get some via

the antenna itself but low power will help prevent problem. If you do get rf in house wiring, come back and I'm sure some of the guys cant help you out with that.

I used to live on the ground floor of a 4 story apartment building. I had a long random wire secretly located on the roof. I fed that wire with another #22 black wire that was almost invisible to anyone not looking for it. The small size wire even fit under a sliding glass window. I used a tuner and several counterpoise wires. My apartment was located on the side of a hill overlooking a river valley. With this setup, I worked several hundred countries in five years, running no more than 100 watts. There were several dx contests where I worked 75 or more countries in a weekend running no more than 5 watts.

If you have any questions, please feel free to ask.  
73 de Dave, N0IT

-----  
Date: Tue, 12 Jan 1999 17:39:38 EST  
From: Mercxx@aol.com  
To: qrp-l@lehigh.edu  
Subject: [29507] 5 Watt amp  
Message-ID: <2306febc.369bcf2a@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi all,

Is there a kit or a homebrew design for a 5 watt from when you want to take a milliwatt rig and put some boots on it? I am interested in adding one to my Micronaut and a couple of other projects.

73s  
Steve  
N4TKP  
FIST 4922  
QRP-L 1763

-----  
Date: Tue, 12 Jan 1999 16:48:23 -0600 (CST)  
From: ac5ez@webtv.net (Larry B)  
To: qrp-l@Lehigh.EDU  
Subject: [29508] Re: The Importance of Baluns  
Message-ID: <26876-369BD137-523@mailtod-121.bryant.webtv.net>  
Content-Disposition: Inline



Content-Type: Text/Plain; Charset=US-ASCII  
Content-Transfer-Encoding: 7Bit  
MIME-Version: 1.0 (WebTV)  
Content-Transfer-Encoding: 7Bit

As Lew McCoy said, "You pays your money and takes your chances".  
The balun/no balun argument has been going on for years and years. As  
far as myself I use a home made dipole feed with ladder line and a tuner.  
No Balun.  
Larry K1zw

-----  
Date: Tue, 12 Jan 1999 17:50:49 -0500  
From: "Prof.Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>  
To: <qrp-L@LeHigh.edu>  
Subject: [29509] RE: NVIS Antenna performance  
Message-ID: <008b01be3e7e\$01b393e0\$04000a0a@nwarfiel.usf.edu>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi all !  
NVIS antenna performance is really surprising when running QRP.  
If BOTH stations run NVIS antennas it seems to make a measurable  
improvement... but even one only one of the two is using NVIS it works !  
The NVIS antenna picks up less noise from static coming at medium and low  
angles or arrival... but will pick up static at much higher levels if the  
stormy area is within the "umbrella" of the antenna's coverage  
The other interesting fact for QRP operators is that , as stated here in  
QRP-L previously , the NVIS need not be installed in a direction favoring in  
azimuth to the other station, as the path is essentially an  
UP and DOWN trajectory !  
My simple folded dipole close to the ground seems to be an excellent  
performer for our Hurricane Nets , but when I add a reflector wire, just  
about 50 centimeters above ground , there seems to be a slight increase in  
gain... ( VERYYYY difficult to measure with the kind of instruments I have  
available...  
The reflector wire is about 5 % longer than the driven folded dipole  
element...  
I once experimented by adding a DIRECTOR,,, located about 5 meters from the  
folded dipole, but soon found out that my coverage was actually LESS... and  
I thought that this was due to the fact that the BEAM was very narrow with  
the "3 element" Yagi beaming at 90 degrees up...  
Anyway, as the NVIS for 80 and 40 meters is so easy to install and a low

cost antenna, there is nothing against installing one as a standby system or to be used during emergencies

Arnie Coro

C02KK

comments , opinions new ideas make QRP-L attractive  
post them !

-----  
Date: Tue, 12 Jan 1999 16:54:47 -0600 (CST)  
From: ac5ez@webtv.net (Larry B)  
To: qrp-l@Lehigh.EDU  
Subject: [29510] Baluns  
Message-ID: <26881-369BD2B7-125@mailtod-121.bryant.webtv.net>  
Content-Disposition: Inline  
Content-Type: Text/Plain; Charset=US-ASCII  
Content-Transfer-Encoding: 7Bit  
MIME-Version: 1.0 (WebTV)  
Content-Transfer-Encoding: 7Bit

With a dipole close to the ground , a balun will have no affect on the pattern whatsoever and if per chance you do have some current flowing on the shield , so what, maybe you can work some one with it. Running qrp I dont want any loss in a balun which does nothing for a dipole close to the ground.

k1zw

-----  
Date: Tue, 12 Jan 1999 16:56:55 -0600 (CST)  
From: ac5ez@webtv.net (Larry B)  
To: qrp-l@Lehigh.EDU  
Subject: [29511] Balun  
Message-ID: <26874-369BD337-664@mailtod-121.bryant.webtv.net>  
Content-Disposition: Inline  
Content-Type: Text/Plain; Charset=US-ASCII  
Content-Transfer-Encoding: 7Bit  
MIME-Version: 1.0 (WebTV)  
Content-Transfer-Encoding: 7Bit

I am not convinced that a dipole had, by its nature, unequal currents in each leg. I remember an article where the current was measured and for all practical purposes was about equal, with no balun.

K1zw

-----  
Date: Tue, 12 Jan 1999 23:10:04 -0000  
From: tf3vst@vortex.is (Villi Idunni)  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [29512] Re: 5 Watt amp  
Message-ID: <00cb01be3e80\$b09f04a0\$c389fea9@digranes>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

There is one in Dan's January Web list:  
<http://www.fix.net/~jparker/dans.html>.  
Does any of you know anything about the pros and cons of that one?

73's  
de Villi TF3VS

-----Original Message-----  
From: Mercxx@aol.com <Mercxx@aol.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Date: Tuesday, January 12, 1999 10:50 PM  
Subject: 5 Watt amp

>Hi all,  
> Is there a kit or a homebrew design for a 5 watt from when you want to  
take  
>a milliwatt rig and put some boots on it? I am interested in adding one to  
my  
>Micronaut and a couple of other projects.  
>  
>73s  
>Steve  
>N4TKP  
>FIST 4922  
>QRP-L 1763  
>

-----  
Date: Tue, 12 Jan 1999 23:09:44 GMT  
From: mwattcpa@earthlink.net (Marty Watt)

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [29513] Re: TS-50 vs Alinco 70x  
Message-ID: <369ccb67.21226840@mail.earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: quoted-printable  
Content-Transfer-Encoding: quoted-printable

On Tue, 12 Jan 1999 12:41:39 -0800, W7LS <w7ls@blarg.net> wrote:

>Hi, Doc. I have them both. In fact, I have 2 of the TS-50 rigs with=20  
>accessory cw filters, and one DX-70T. One for each car and one for the=20  
>shack. They are very comparable. Both are current hogs, but the Alinco =  
is=20  
>a little less hungry. Both perform well. The TS-50 forces you to use the=  
=20  
>narrow cw filter if you are in cw mode. I don't really like that, but=20  
>it's ok. The Alinco has the neat feature of being able to pop the front=20  
>panel off and put it somewhere else, remotely. Also, the DX-70T has 6=20  
>meters, not that I ever use it. I like the way the Alinco operates a bit=  
=20  
>better than the Kenwood, but not significantly.

While agreeing with the overall assessment of the Kenwood (I've never =  
used the  
Alinco), I do need to correct one item. My TS-50 allows me to switch =  
between  
narrow and wide CW filters. I uses one of the four programmable keys on =  
the  
mic to swap filters in and out. Wide (on mine) is 2.4 kHz, narrow is =  
500Hz.

-----  
Date: Tue, 12 Jan 1999 15:19:22 -0800  
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)  
To: <qrp-1@lehigh.edu>  
Subject: [29514] First Radio Kit for Newbies, My \$.02 worth  
Message-ID: <01be3e81\$fd8e0940\$630a0d0a@doug.dpol.k12.ca.us>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

If you are new to qrp, and want to get started building, I have a few  
suggestions for you. Many of us on the list forget that we get new  
subscribers all the time, and they don't have the benefit of our longevity

on the list. Here are my recommendations:

1. The G3RJV Sixpack Kit - Available from Kanga US for \$40. You get 6 boards, and all of the board mounted parts to build 6 simple kits. There is a receiver, transmitter, voltage monitor, SWR monitor, rf probe, and crystal checker. The kits are easy and fun to build, come with a nice manual, and give you lots of soldering practice, plus they are simple to build, easy to complete in an hour or so, and useful when you finish. It is an excellent way to get your feet wet.

<http://www.bright.net/~kanga/kanga/>

2. The NJ QRP Club Fireball transmitter. This one gets recommended because it is only \$10, and again a nice way for the beginner to learn how to build. Available from the NJ QRP QRP Club.

<http://www.njqrp.org/>

3. If you have some soldering and building experience, this is where you want to start. The SW40+ from Small Wonder Labs. The neat thing about this rig is the price, \$55 for board and board mounted parts. There just isn't a better bargain out there now. Plus, there was a whole series of articles and postings on QRP-L which concerned itself with why and how components were chosen and what their purpose is. This has been printed in the Fall issue of QRPp, although we are out of the club issues, extras were printed by Quick Silver Printing (with full approval of NorCal) which will be available from Paul Harden soon. It is a great reference for the first time builder, and is an invaluable addition to Dave Benson's excellent manual. When you finish the SW40+ you have a radio that will give you about 40 kHz of VFO coverage, and you can put it anywhere on the 40 meter band that you want to. (Neat feature for Novices). When you upgrade, a couple of small mods and you are on the General portion of the band.

<http://www.fix.net/~jparker/sml.html>

Several hundred if not thousands of this kit have been built by the members of this list, and if you have any problems, help is just a few keystrokes away.

Building is fun, but like anything else, you need to learn the basics first. You need to be able to follow directions, read a schematic, identify parts, and solder and de-solder. It is fun, nothing is more satisfying than getting one of your homebrew projects to work, and you will learn more this way easier than any other way in my opinion. That is why I suggest the Kanga 6 pack first, then the NJ QRP Club Fireball 40 Transmitter, then the SWL40+. The Fireball 40 will teach you how to do mods, how to chose and adapt components, and the instruction manual for the Fireball 40 is worth the \$10 alone. Don't skip the learning available here for only \$10. Chuck

Adams once told me that Education costs, but nothing is so valuable. True words.

Disclaimer: I do not have any financial interest in Kanga or Small Wonder Labs. I am good friends of Bill Kelsey, Dick Pascoe, and Dave Benson. They have helped me many times in the past and are wonderful to deal with. The NJ QRP Club is one of the most active and progressive clubs going today. They don't just talk, these guys are doers. They take ideas and make them happen. Kind of remind me of a group of guys on the West Coast. They are also excellent folks, and George Heron, Joe Everhart, Dave Malianiak, and the rest of the NJ Club are also friends of mine.

72, Doug, KI6DS

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Date: Tue, 12 Jan 1999 18:15:39 EST  
From: Bigbob97@aol.com  
To: QRP-L@Lehigh.edu  
Subject: [29515] prohibited contacts?  
Message-ID: <c9768238.369bd79b@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi Friends,  
Does anyone know if there are any countries which we, as US Amateurs, are currently prohibited from communicating with - over the airwaves? Thanks,  
Bob WB2DHK

-----  
Date: Tue, 12 Jan 1999 18:45:02 -0500  
From: "Vincent Ferme" <vferme@sprint.ca>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [29516] Re: [larc-l] DX  
Message-ID: <006e01be3e85\$b35ad700\$933367d1@vince>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

This is an EXCELLENT program!!!!

73 de Vince, VE3VFN.

-----Original Message-----

From: Scott Howell <whowell@hq.nasa.gov>

>thought you guys might find this prg of intrest. I haven't tried it, but  
>thought to pass it on.

>><http://www.cruzio.com/~benlo/dxmon.html#download>

-----  
Date: Tue, 12 Jan 1999 18:47:29 -0500

From: "Mitch Dickson" <mitch@volstate.net>

To: <jeffj@scott.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [29517] Re: Kits for a newcomer

Message-ID: <003401be3e85\$eb576ba0\$0d338cd1@default>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Jeff, There are a myriad of kits to chose from. and all are pretty good. I like the Small Wonder Labs. Dave sells the kit for \$55 and they come in 4 bands. There is extensive work done on this kit and an Elmer 101 series of hints and build helps. The internet will lead you through the whole process and get you on the air! Ask around and I know that others will recomend either this kit or a similar one. CU Mitch

-----  
Date: Tue, 12 Jan 1999 18:48:06 -0500

From: Bruce Muscolino <w6toy@erols.com>

To: Wa2eaw@aol.com

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [29518] Re: Help in feeding long wire.

Message-ID: <369BDF36.11AC@erols.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Bob,

As the list's resident expert on stealth antennas let me check in here. First off I'd say your antenna is just one big end fed wire. There is nothing tuned about it. It would be best to feed it through a tuner, for several reasons; matching and RFI among them. Second, I agree with what you've been told about using counterpoises. They make a big difference. I would add you could get away with one if you are on only one band or you want to use a ground tuner too.

I used a stealth antenna for about 18 years, off and on. I wrote it up in QST for June 1995. Mine was shorter than yours by a bunch and was often replaced because I was a temporary resident of Maryland for 14 of those years. I used #26 magnet wire with no insulators and shot it into a friendly tree with a slingshot. I used it with QRP and QRO and probably worked all states and 80 or 90 countries with it. They work.

I would consider replacing the coax with some small gauge plastic covered wire though because it is part of your antenna and there is no telling what the braid is doing. By all means, don't hook up the braid. The experience I had using an end fed wire as a stealth antenna led directly to using one here at the house, only longer and made of stouter stuff!

73

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End of QRP-L Digest 1334

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